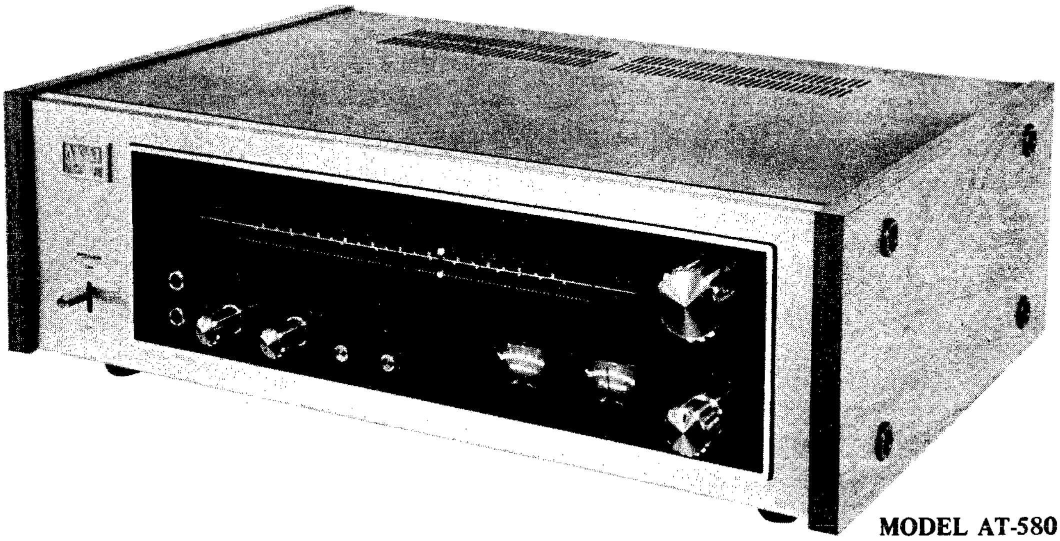

MODEL AT-580

MODEL AT-550

FM AM MPX STEREO TUNER

MODEL AT-580

ALSO APPLICABLE TO MODEL
AT-550 FM AM MPX STEREO TUNER

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SECTION 1

SERVICE MANUAL

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I. SPECIFICATIONS

MODEL AT-580

An asterisk next to a figure indicates the minimum guaranteed performance.

§ FM SECTION

FREQUENCY RANGE		86 to 109 ±1 MHz
TRACKING ERROR		±0.25 MHz
SENSITIVITY (I.H.F.)		1.6 μV (*2.8 μV)
SENSITIVITY DIFFERENCE		Within 3 dB
IMAGE REJECTION RATIO		Better than 90 dB (*85 dB) at 98 MHz
IF REJECTION RATIO		Better than 90 dB (*85 dB) at 98 MHz
SPURIOUS RADIATION		Better than 85 dB
CAPTURE RATIO		Less than 1.2 dB (*2.0 dB)
LIMITING SENSITIVITY		Less than 6 dB at -1 dB audio output
MUTING SENSITIVITY		14 ±3 dB
AGC CHARACTERISTIC		Less than 0.5% at 114 dB antenna input
SELECTIVITY		Better than 80 dB (*70 dB)
AM SUPPRESSION		Better than 60 dB (*55 dB)
OUTPUT LEVEL	Variable	3 ±3 dB Volume max.
	Fixed	-7 ±3 dB
SIGNAL TO NOISE RATIO	Mono	Better than 70 dB (*60 dB)
	Stereo	Better than 55 dB
HARMONIC DISTORTION	Mono	Less than 0.3% (*0.5%)
	Stereo	Less than 0.8% (*1.5%)
FREQUENCY RESPONSE		50 to 15,000 Hz ±1.5 dB
STEREO UTILITY SENSITIVITY		20 ±3 dB
STEREO INDICATOR SENSITIVITY		15 ±3 dB
STEREO SEPARATION		Better than 40 dB (*35 dB)
SCA REJECTION RATIO		Better than 55 dB
L-R DEVIATION		Within 1 dB

§ AM SECTION

FREQUENCY RANGE		525 ±5 to 1,640 ±20 kHz
TRACKING ERROR		Within 2%
SENSITIVITY (I.H.F.)		150 μV (*180 μV)
IMAGE REJECTION RATIO		Better than 70 dB (*60 dB)
IF REJECTION RATIO		Better than 70 dB
SELECTIVITY		Better than 25 dB (±20 kHz)
AGC CHARACTERISTIC		Better than 50 dB
SIGNAL TO NOISE RATIO		Better than 50 dB (*45 dB)
HARMONIC DISTORTION		Less than 1.5% at 74 dB input
FREQUENCY RESPONSE		-12 ±2 dB at 5 kHz
OUTPUT LEVEL	Variable	-1 ±3 dB Volume max.
	Fixed	-13 ±3 dB

§ GENERAL SPECIFICATIONS

TRANSISTORS	2SC838(H)....... 4	2SC900(F)....... 3
	2SC922(L)(M).... 2	2SC945(Q)(R) 6
	2SC1096(L)(M)... 1	
I.C.	LA1111......... 1	LA1221......... 3
	LA3300......... 1	MC4080(4) 1
DIODES	1N34A.......... 5	1N60........... 2
	1N60P.......... 4	10D1........... 4
	WZ-120......... 1	
POWER SUPPLY	100 to 240V A.C., 50/60 Hz	
POWER CONSUMPTION	15W	
DIMENSIONS	434(W) x 142(H) x 320(D) mm (17.1" x 5.6" x 12.6")	
WEIGHT	7.8 kg (17.2 lbs.)	

NOTE: **Specifications subject to change without notice.**

MODEL AT-550

An asterisk next to a figure indicates the minimum guaranteed performance.

§ FM SECTION

FREQUENCY RANGE		87 to 109 ±1 MHz
TRACKING ERROR		±0.25 MHz
SENSITIVITY (I.H.F.)		1.8 μV (*3.2 μV)
SENSITIVITY DIFFERENCE		Within 3 dB
IMAGE REJECTION RATIO		Better than 70 dB at 98 MHz
IF REJECTION RATIO		Better than 80 dB at 98 MHz
SPURIOUS RADIATION		Better than 80 dB
CAPTURE RATIO		Less than 2 dB (*3 dB)
LIMITING SENSITIVITY		Less than 6 dB at -1 dB audio output
MUTING SENSITIVITY		20 ±3 dB
AGC CHARACTERISTIC		Less than 0.5% at 114 dB antenna input
SELECTIVITY		Better than 70 dB (*60 dB)
AM SUPPRESSION		Better than 60 dB (*55 dB)
OUTPUT LEVEL	Variable	3 ±2 dB Volume max.
	Fixed	-6 ±2 dB
SIGNAL TO NOISE RATIO	Mono	Better than 70 dB (*60 dB)
	Stereo	Better than 45 dB
HARMONIC DISTORTION	Mono	Less than 0.3% (*0.5%)
	Stereo	Less than 0.8% (*1.5%)
FREQUENCY RESPONSE		50 to 15,000 Hz ±1.5 dB
STEREO UTILITY SENSITIVITY		20 ±3 dB
STEREO INDICATOR SENSITIVITY		20 ±3 dB
STEREO SEPARATION		Better than 38 dB (*35 dB)
SCA REJECTION RATIO		Better than 45 dB
L-R DEVIATION		Within 1 dB

§ AM SECTION

FREQUENCY RANGE		525 ±5 to 1,640 ±20 kHz
TRACKING ERROR		Within 2%
SENSITIVITY (I.H.F.)		150 μV (*220 μV)
IMAGE REJECTION RATIO		Better than 55 dB
IF REJECTION RATIO		Better than 45 dB
SELECTIVITY		Better than 30 dB (±20 kHz)
AGC CHARACTERISTIC		Better than 50 dB
SIGNAL TO NOISE RATIO		Better than 50 dB (*45 dB)
HARMONIC DISTORTION		Less than 1% (*2%) at 74 dB input
FREQUENCY RESPONSE		-14 ±2 dB at 5 kHz
OUTPUT LEVEL	Variable	-1 ±1.5 dB Volume max.
	Fixed	-10 ±1.5 dB

§ GENERAL SPECIFICATIONS

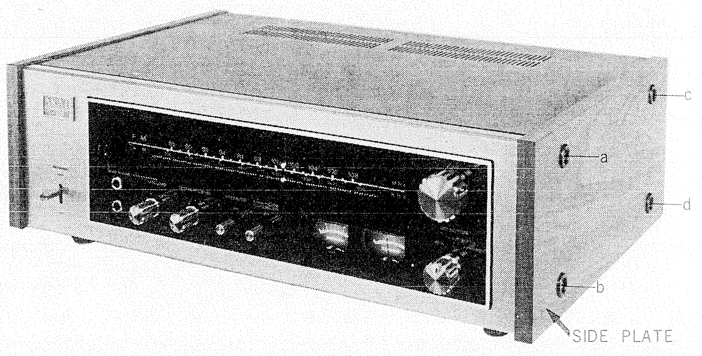
TRANSISTORS	2SC838(H) 3	2SC922(L)(M) 5
	2SC945(Q)(R) 6	2SC1096(L)(M) . . . 1
I.C.	LA1111 1	LA3300 1
	MC4080(4) 1	
DIODES	1N34A 3	1N60 4
	1N60P 2	10D1 4
	WZ-120 1	
POWER SUPPLY	100 to 240V A.C., 50/60 Hz	
POWER CONSUMPTION	15W	
DIMENSIONS	434(W) x 142(H) x 320(D) mm (17.1" x 5.6" x 12.6")	
WEIGHT	7.7 kg (16.9 lbs.)	

NOTE: Specifications subject to change without notice.

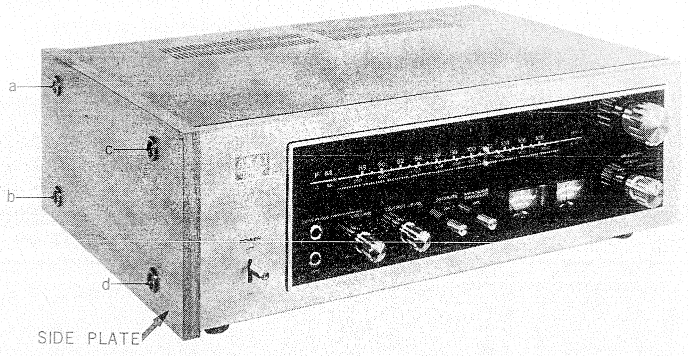
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.

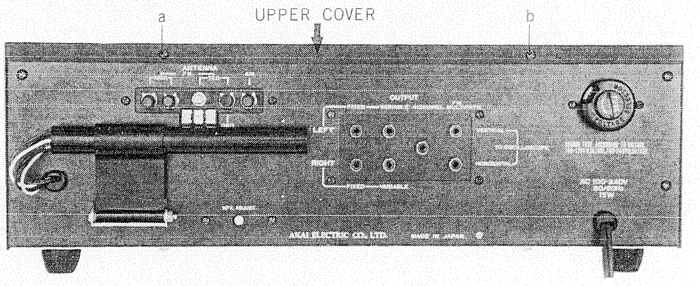
1


c
a
d
b
SIDE PLATE

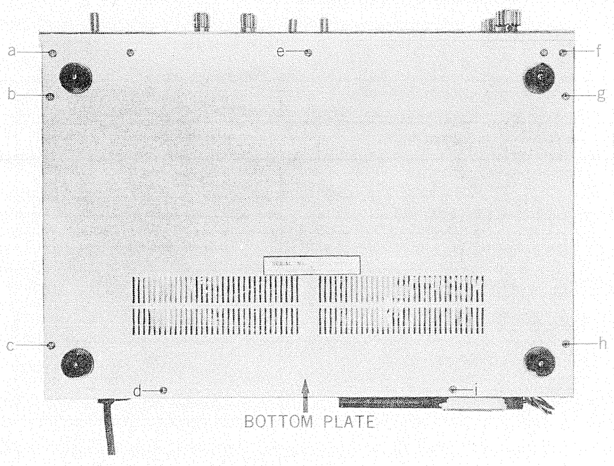
2


a
c
b
d
SIDE PLATE

3


a
UPPER COVER
b

4


a
e
f
b
g
c
h
d
i
BOTTOM PLATE

III. ARRANGEMENT OF MAIN PARTS

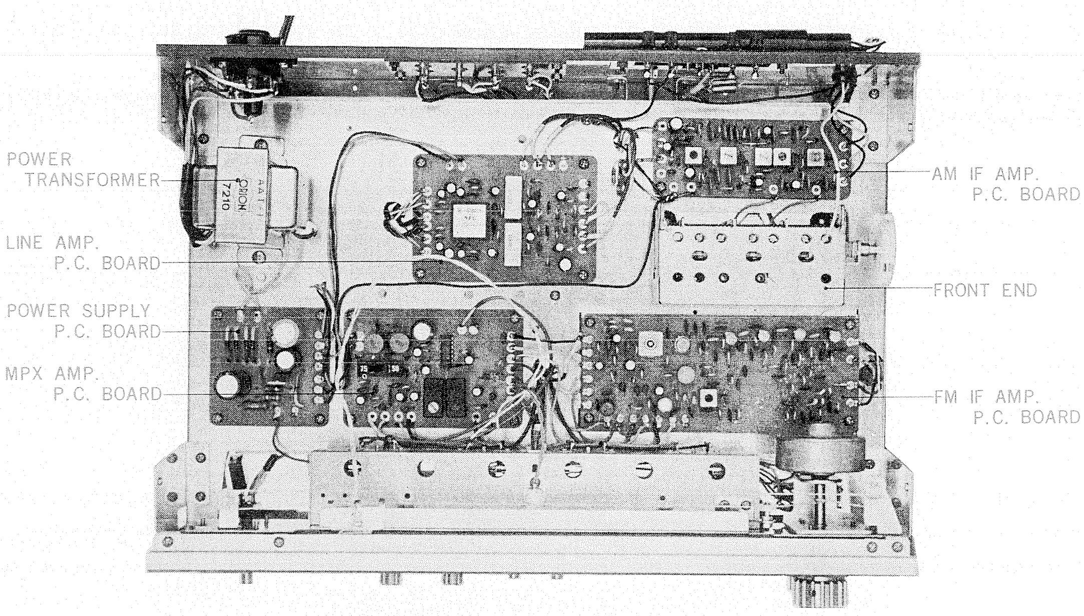

POWER TRANSFORMER
LINE AMP. P.C. BOARD
POWER SUPPLY P.C. BOARD
MPX AMP. P.C. BOARD
AM IF AMP. P.C. BOARD
FRONT END
FM IF AMP. P.C. BOARD

Fig. 1 TOP VIEW

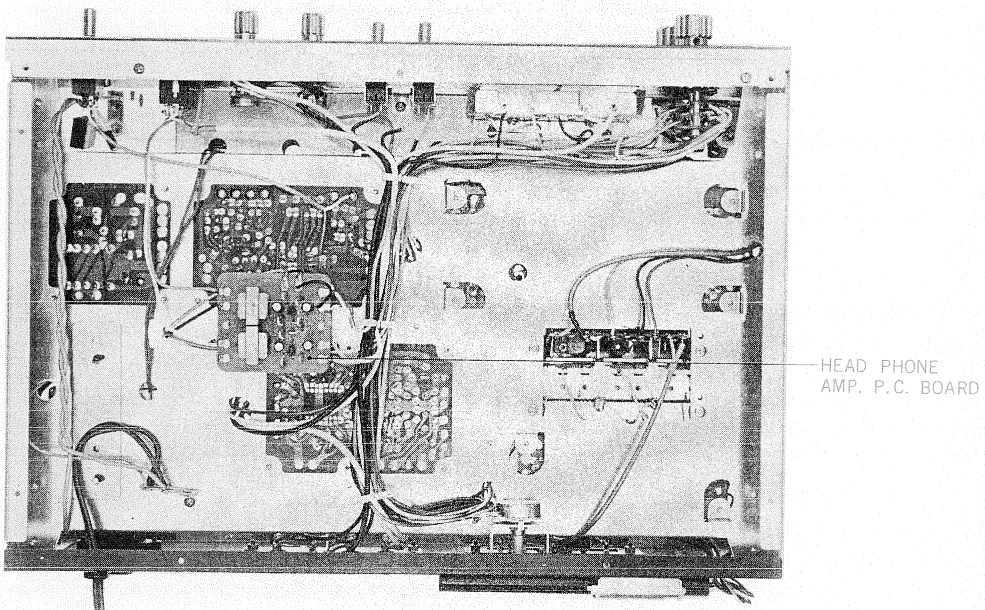

HEAD PHONE AMP. P.C. BOARD

Fig. 2 BOTTOM VIEW

Refer to Chart 1 for different P.C. Boards according to Model No.

	MODEL AT-580	MODEL AT-550
FM IF AMP. P.C. BOARD	T5-5059	T5-5030
MPX. AMP. P.C. BOARD	T5-5031	T5-5031
AM IF AMP. P.C. BOARD	81-5047	T5-5029
LINE AMP. P.C. BOARD	T5-5085	T5-5028
HEAD PHONE AMP. P.C. BOARD	T5-5060	
POWER SUPPLY P.C. BOARD	T5-5032	T5-5032
FUSE P.C. BOARD	T5-5034	T5-5034
METER LAMP P.C. BOARD	T5-5012	T5-5012

Chart 1

IV. FM TUNER SECTION ADJUSTMENTS

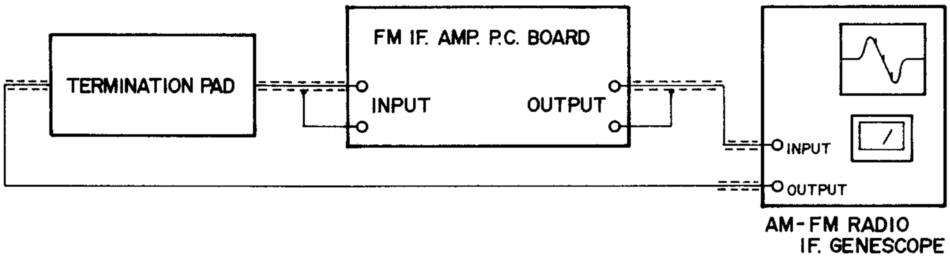


Fig.3

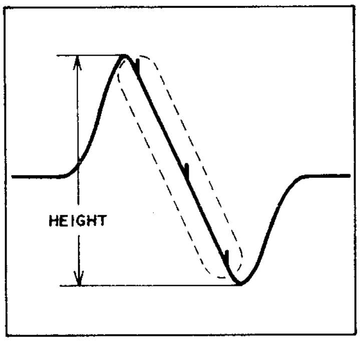


Fig. 4

	MODEL AT-580	MODEL AT-550
VERTICAL GAIN	0.3V p-p 2 cm	0.3V p-p 3 cm
GENESCO OUTPUT LEVEL	86 dB	46 dB
DISCRIMINATOR COIL	L1	L2
S CURVE HEIGHT	5.5 cm	4 cm

Chart 2

1. FM IF CIRCUIT ADJUSTMENT

1) Connect the lead wires from an AM-FM Radio IF GENESCOPE (hereinafter referred to as GENESCO) to the INPUT as well as the OUTPUT terminal of the FM IF Amp. P.C. Board as shown in Fig. 3.
2) Set GENESCO to FM mode and adjust vertical gain (refer to Chart 2).
3) Set Tuner Source Selector to FM-AUTO, and set the tuning indicator needle to extreme right end of dial. At this time confirm that noise does not enter the S Curve shown in Fig. 4.
4) Adjust output level of GENESCO (refer to Chart 2).
5) Adjust the upper and lower core of Discriminator coil so that the wave height value of the S Curve shown in Fig. 4 is maximum and the linearity of the part indicated by the dotted line is optimum (refer to Chart 2).
6) In making this adjustment, the S Curve marker point will differ according to the rank of the ceramic filter.

7) FM IF AMP. P.C. BOARD T5-5059

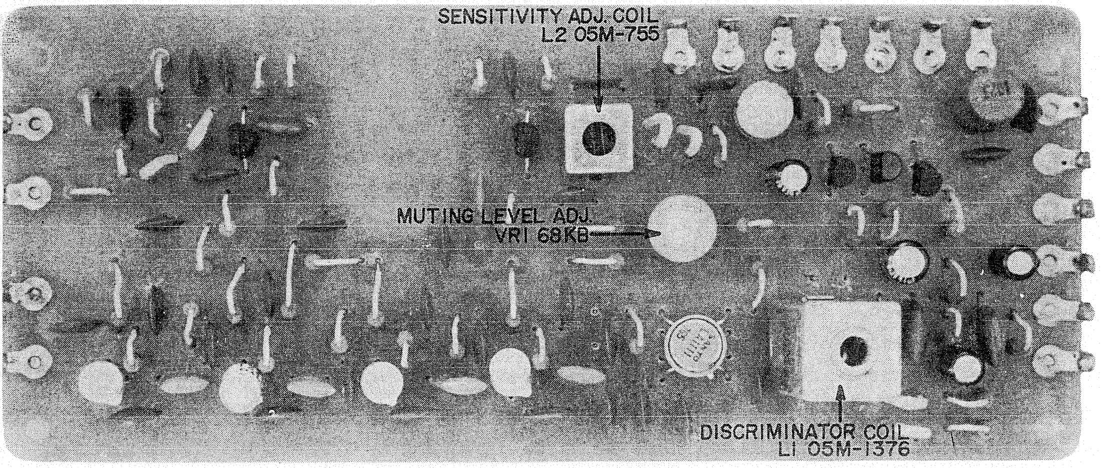

SENSITIVITY ADJ. COIL
L2 05M-755
MUTING LEVEL ADJ.
VR1 68KB
DISCRIMINATOR COIL
L1 05M-1376

Fig. 5 FACE SIDE

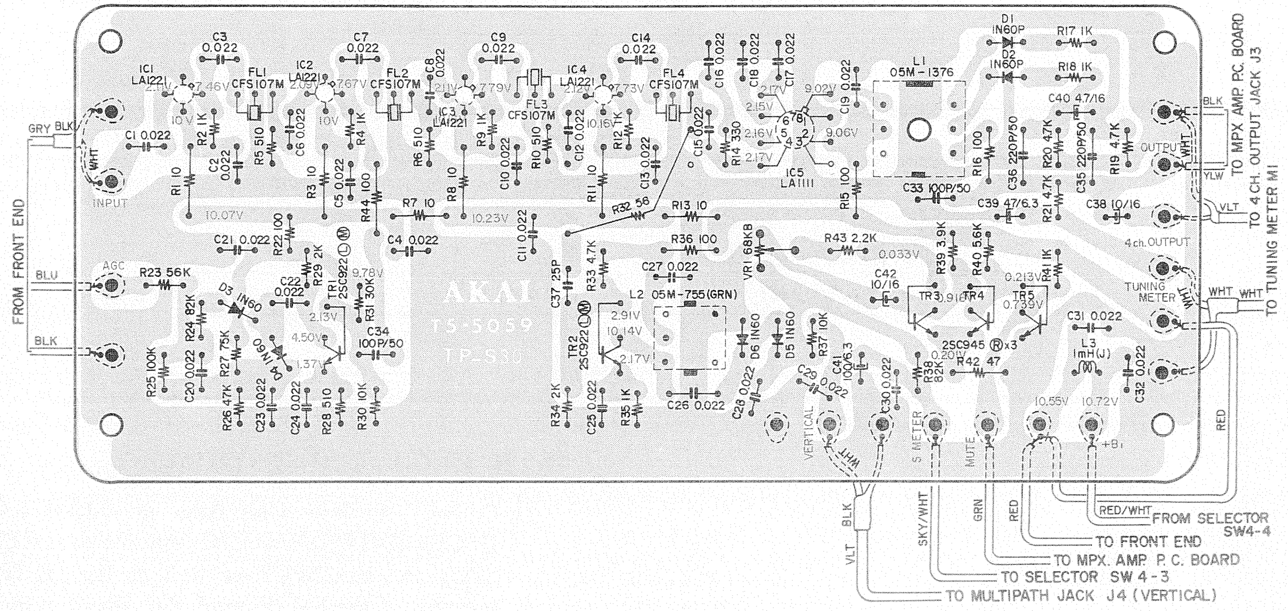

IC1 LA1221
FL1 CFS107M
IC2 LA1221
FL2 CFS107M
IC3 LA1221
FL3 CFS107M
IC4 LA1221
FL4 CFS107M
IC5 LA1111
L1 05M-1376
L2 05M-755(GRN)
L3 1mH(J)
D1 1N60P
D2 1N60P
D3 1N60
D4 1N60
D5 1N60
D6 1N60
TR1 2SC922
TR2 2SC922
TR3
TR4
TR5
2SC945 ®x3
VR1 68KB
AKAI
T5-5059
TP-530
INPUT
AGC
GRY
BLK
WHT
BLU
FROM FRONT END
OUTPUT
4ch. OUTPUT
TUNING METER
YLW
VLT
TO MPX. AMP. P.C. BOARD
TO 4 CH. OUTPUT JACK J3
TO TUNING METER M1
VERTICAL
S METER
MUTE
+B
RED
SKY/WHT
GRN
RED/WHT
FROM SELECTOR SW4-4
TO FRONT END
TO MPX. AMP. P.C. BOARD
TO SELECTOR SW 4-3
TO MULTIPATH JACK J4 (VERTICAL)

Fig. 6 REVERSE SIDE

8) FM IF AMP. P.C. BOARD T5-5030

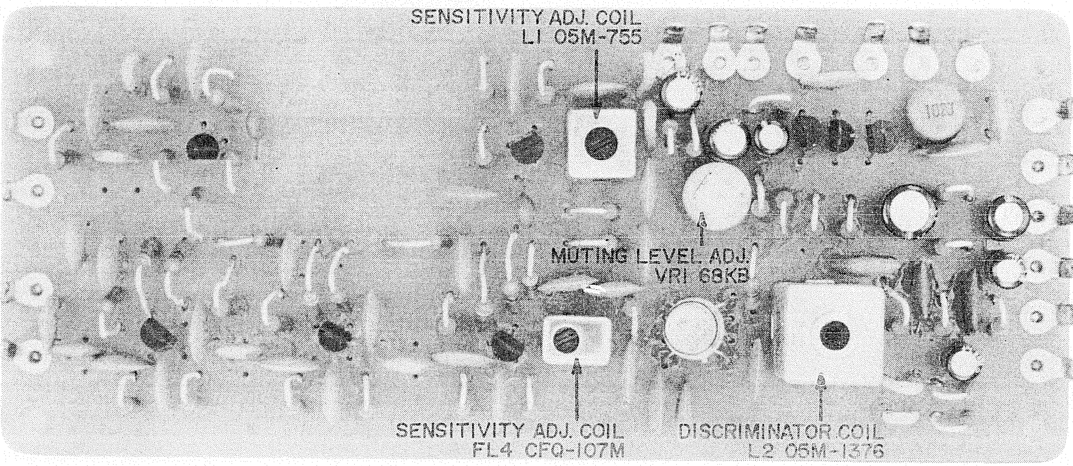

SENSITIVITY ADJ. COIL
L1 05M-755
MUTING LEVEL ADJ.
VR1 68KB
SENSITIVITY ADJ. COIL
FL4 CFQ-107M
DISCRIMINATOR COIL
L2 05M-1376

Fig. 7 FACE SIDE

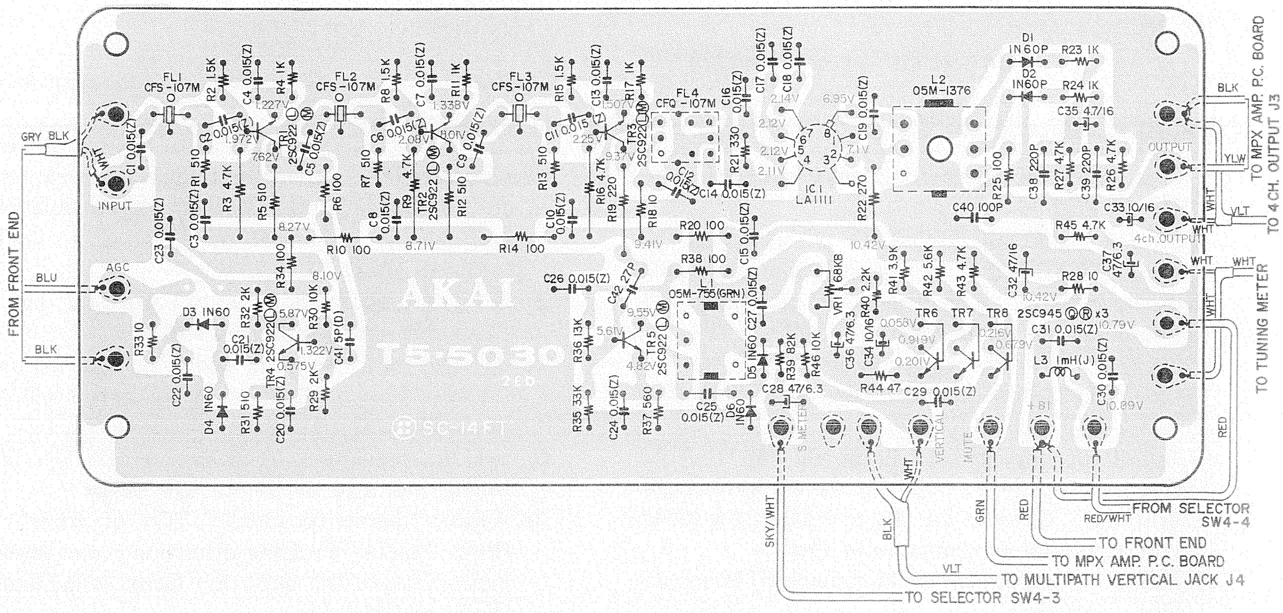

FROM FRONT END
GRY
BLK
WHT
INPUT
AGC
BLU
BLK
FL1 CFS-107M
FL2 CFS-107M
FL3 CFS-107M
FL4 CFQ-107M
TR1 2SC922 Ⓛ Ⓜ
TR2 2SC922 Ⓛ Ⓜ
TR3 2SC922 Ⓛ Ⓜ
TR4 2SC922 Ⓛ Ⓜ
TR5 2SC922 Ⓛ Ⓜ
IC1 LA1111
L1 05M-755(GRN)
L2 05M-1376
D1 IN60P
D2 IN60P
D3 IN60
D4 IN60
D5 IN60
D6 IN60
VR1 68KB
TR6 TR7 TR8 2SC945 Ⓠ Ⓡ x3
L3 1mH(J)
R23 1K
R24 1K
C35 47/16
C33 10/16
R45 4.7K
C37 47/6.3
R28 10
C31 0.015(Z)
C30 0.015(Z)
C28 47/6.3
C29 0.015(Z)
R44 47
C36 47/6.3
C34 10/16
R39 82K
R46 10K
C40 100P
C32 47/16
R10 100
R14 100
R20 100
R38 100
AKAI
T5-5030
SC-14FT
OUTPUT
4ch OUTPUT
S METER
VERTICAL
MUTE
+B1
BLK
YLW
WHT
VLT
TO MPX AMP. P.C. BOARD
TO 4 CH. OUTPUT J3
WHT
TO TUNING METER
RED
SKY/WHT
BLK
WHT
GRN
RED
RED/WHT
FROM SELECTOR SW4-4
TO FRONT END
TO MPX AMP. P.C. BOARD
VLT
TO MULTIPATH VERTICAL JACK J4
TO SELECTOR SW4-3

Fig. 8 REVERSE SIDE

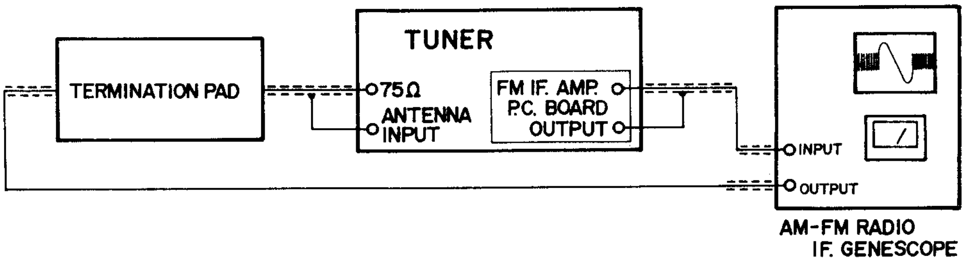

TERMINATION PAD
TUNER
75Ω
ANTENNA
INPUT
FM IF. AMP.
P.C. BOARD
OUTPUT
INPUT
OUTPUT
AM-FM RADIO
IF. GENESCOPE

Fig. 9

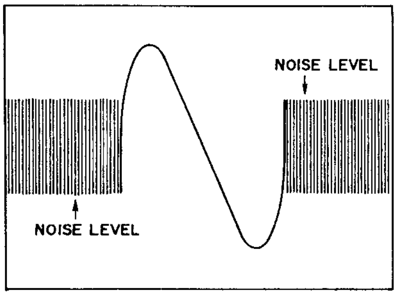

NOISE LEVEL
NOISE LEVEL

Fig. 10

	MODEL AT-580	MODEL AT-550
FM S.G. OUTPUT	46 dB	46 dB
CORE (Low Range)	Lo	Lo
TRIMMER CONDENSER (High Range)	TCo	TCo

Chart 3

2. FRONT END AND FM IF MATCHING ADJUSTMENT

1) Connect the GENESCO lead wires to the 75Ω ANTENNA TERMINALS of the tuner as well as to the FM IF Amp. P.C. Board OUTPUT as shown in Fig. 9.
2) Set the GENESCO to FM mode and adjust the V Gain of GENESCO to obtain 20 mm, amplitude of the 0.3V p-p calibration voltage on GENESCO screen and set the attenuator to 100 dB.
3) Set Tuner Source Selector to FM-AUTO, and set the tuning indicator needle to extreme right end of dial.
4) Adjust the upper core of Front End IF Coil (see Figs. 22, 24) to obtain maximum wave height value of S Curve in Fig. 10, and adjust the lower core to obtain maximum noise level.
5) Make this adjustment again following FM sensitivity adjustment.

3. TRACKING ADJUSTMENT

1) Connect the various measuring instruments as shown in Fig. 11.
2) Set the oscillation frequency of the FM SIGNAL GENERATOR (hereinafter referred to as FM S.G.) to 90 MHz (400 Hz, 75% internal modulation), and set the output of the FM S.G. to 46 dB (refer to Chart 3).
3) Set Tuner Source Selector to FM-AUTO, and set the tuning indicator needle to 90 MHz.
4) Adjust core Lo of front end (Figs. 22, 24) until the distortion meter level is maximum and the distortion factor is minimum (refer to Chart 3).
5) Set the oscillation frequency of FM S.G. and tuning indicator needle to 106 MHz.
6) Adjust trimmer condenser TCo of front end (Figs. 22, 24) until the distortion meter level is maximum and the distortion factor is minimum. (Refer to Chart 3).
7) Repeat adjustments outlined in Items 2) through 6) two or three times for minimum tracking error.

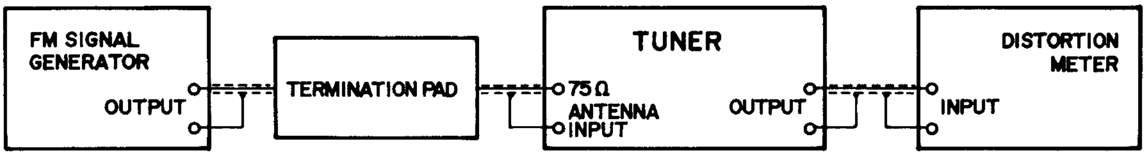

FM SIGNAL GENERATOR
OUTPUT
TERMINATION PAD
TUNER
75Ω
ANTENNA
INPUT
OUTPUT
DISTORTION METER
INPUT

Fig. 11

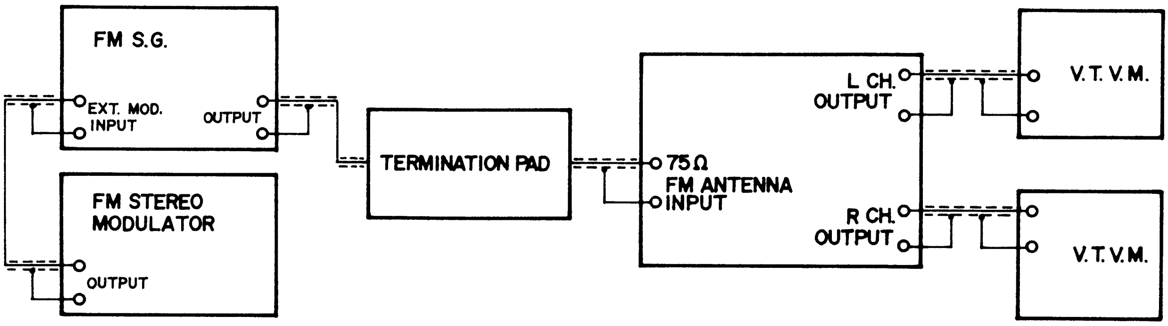


Fig. 12

4. SENSITIVITY ADJUSTMENT

1) Carry out these adjustments after the previously described Tracking Adjustments have been completed.
2) Measuring instrument connections are the same as described in Tracking Adjustments.
3) Set the oscillation frequency of the FM S.G. to 90 MHz (400 Hz, 75% internal modulation), set Tuner Source Selector to FM-AUTO, and set the tuning indicator needle to 90 MHz.
4) Adjust the FM S.G. Attenuator to obtain a 3% distortion factor.
5) Adjust the cores of front end (Figs. 22, 24) until the distortion meter level is maximum, and the distortion factor is minimum (refer to Chart 4).
6) Set the oscillation frequency of FM S.G. and tuning indicator needle to 106 MHz.
7) Adjust the FM S.G. Attenuator to obtain a 3% distortion factor.
8) Adjust trimmer condensers of front end (Figs. 22,24) until the distortion meter level is maximum and the distortion factor is minimum. (Refer to Chart 4)
9) Set the oscillation frequency of FM S.G. and the tuning indicator needle to 98 MHz.
10) Adjust the FM S.G Attenuator to obtain a 3% distortion factor.
11) Adjust the upper and lower core of IF Coil in front end (Figs. 22, 24) and the lower core of FM IF Amp. P.C. Board Discriminator Coil until the distortion meter level is maximum and the distortion factor is minimum. (Refer to Chart 4)
12) Repeat adjustments outlined in Items 3) through 11) at 90 MHz, 98 MHz, and 106 MHz two or three times for highest sensitivity.

	MODEL AT-580	MODEL AT-550
CORE (Low Range)	LA, LR1, LR2	LA, LR, LR
TRIMMER CONDENSER (High Range)	TCA,TCR1,TCR2	TCA, TCR, TCR
IF COIL (Mid Range)	IF	IF
DISCRIMINATOR COIL (Mid Range)	L1	L2

Chart 4

5. STEREO SEPARATION ADJUSTMENT

1) Connect the various measuring instruments as shown in Fig. 12.
2) Set the FM STEREO MODULATOR pilot signal 19 kHz to 10%, and the main signal 400 Hz (left channel + right channel) to 90% modulation, and supply this composite signal (ratio 9:1) to the EXT MOD. input terminal of the FM S.G.
3) Set the oscillation frequency of the FM S.G. to 98 MHz, and the attenuator to 66 dB.
4) Set Tuner Source Selector to FM-AUTO, and the tuning indicator needle to 98 MHz to recieve the FM S.G. Signal.
5) Set the main signal selector of FM STEREO MODULATOR to LEFT channel.
6) Adjust the cores of MPX Amp. P.C. BOARD 19 kHz Filter L1 (BLK), and 38 kHz Filter L2 (WHT) until the right channel output level is minimum.
7) Further, adjust the MPX Adjustment Volume located on rear panel of tuner until the right channel output level is minimized, and stereo separation is within specifications.

   NOTE: When MPX Adjustment Volume is turned clockwise, if two adjustment points appear, set to the first adjustment point.
8) Set main signal selector of FM STEREO MODULATOR to RIGHT channel.
9) Confirm that the left channel output level is within stereo separation specifications, and if separation of left and right channel is not average, fine adjust MPX Adjustment Volume again.

   NOTE: FM Separation for both machines is better than 35 dB.

10) MPX Amp. P.C. Board T5-5031

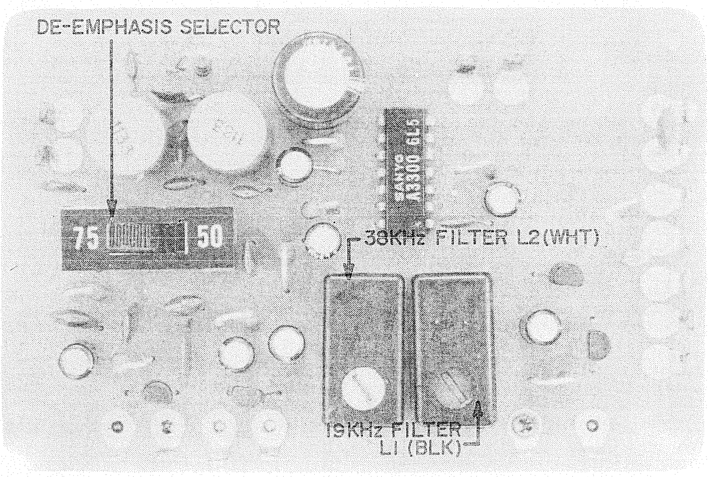

DE-EMPHASIS SELECTOR
75
50
SANYO LA3300 6L5
38KHz FILTER L2(WHT)
19KHz FILTER
L1 (BLK)

Fig. 13 FACE SIDE

		AT-580	AT-550
IC	1	9.71V	9.99V
	2	2.06V 0.012V(MONO)	2.08V 0.012V(MONO)
	3	2.83V	2.79V
	4	1.328V 0 (MONO)	1.341V 0 (MONO)
	5	0.559V	0.557V
	6	0.036V	0.328V
	8	0	0.035V
	9	9.71V	9.98V
	10	3.75V	3.71V
	11	7.34V	7.78V
	12	7.53V	7.82V
	13	3.75V	3.71V
	14	0	0.035V
15		0.041V 10.72V(MONO)	0.587V 10.89V (MONO)
16		0	0.035V
17		19.2V	19.9V
18		0	0
19		0	0
20		0	0
21		10.72V	10.89V

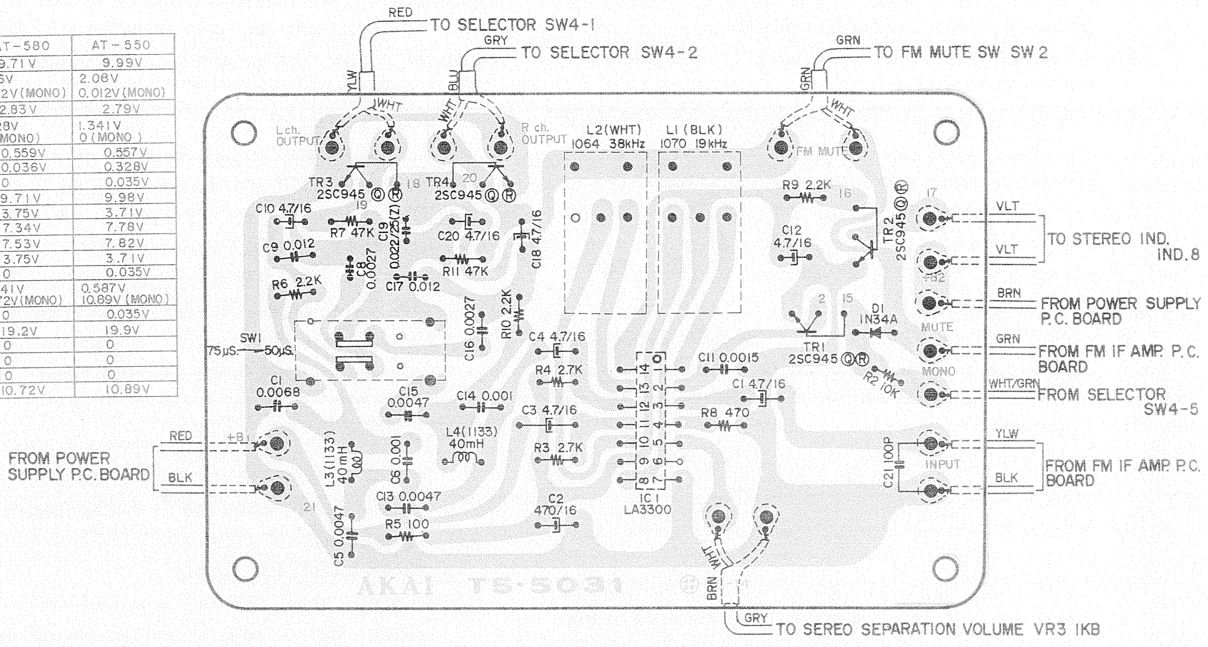

RED
TO SELECTOR SW4-1
GRY
TO SELECTOR SW4-2
GRN
TO FM MUTE SW SW2
YLW
BLU
GRN
WHT
WHT
WHT
L ch. OUTPUT
R ch. OUTPUT
L2(WHT) 1064 38kHz
L1 (BLK) 1070 19kHz
FM MUTE
TR3 2SC945 Ⓠ Ⓡ
TR4 2SC945 Ⓠ Ⓡ
18
20
19
C10 4.7/16
R7 47K
C19 0.0022(Z)
C20 4.7/16
C18 4.7/16
C9 0.012
C8 0.0027
R11 47K
R6 2.2K
C17 0.012
R9 2.2K
16
C12 4.7/16
TR2 2SC945 Ⓠ Ⓡ
17
VLT
VLT
TO STEREO IND. IND.8
+B2
BRN
FROM POWER SUPPLY P.C. BOARD
2
15
D1 1N34A
MUTE
GRN
FROM FM IF AMP. P.C. BOARD
TR1 2SC945 Ⓠ Ⓡ
MONO
WHT/GRN
FROM SELECTOR SW4-5
R2 10K
C16 0.0027
R10 2.2K
C4 4.7/16
SW1
75μS
50μS
C1 0.0068
R4 2.7K
C11 0.0015
C1 4.7/16
C15 0.0047
C14 0.001
C3 4.7/16
R8 470
YLW
C21 100P
INPUT
BLK
FROM FM IF AMP. P.C. BOARD
RED
+B1
FROM POWER SUPPLY P.C. BOARD
BLK
L3(1133) 40mH
C6 0.001
L4(1133) 40mH
R3 2.7K
14 13 12 11 10 9 8
1 2 3 4 5 6 7
IC1 LA3300
21
C13 0.0047
C2 470/16
C5 0.0047
R5 100
AKAI T5-5031
WHT
BRN
GRY
TO SEREO SEPARATION VOLUME VR3 1KB

Fig. 14 REVERSE SIDE

V. AM TUNER SECTION ADJUSTMENTS

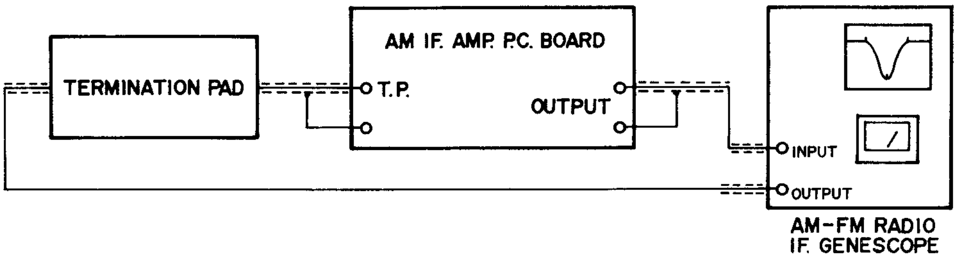


Fig. 15

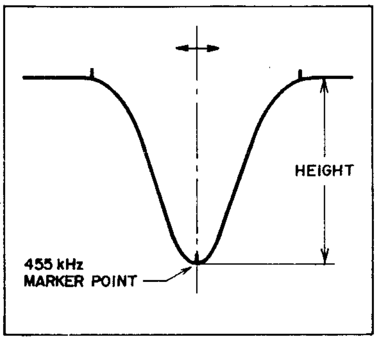


Fig. 16

	MODEL AT-580	MODEL AT-550
VERTICAL GAIN	0.3V p-p 2 cm	0.3V p-p 3 cm
GENESCO OUTPUT LEVEL	81 dB	76 dB
SINGLE PEAKED CURVE HEIGHT	2 cm	3 cm

Chart 5

1. AM IF CIRCUIT ADJUSTMENT

1) Connect the AM-FM Radio IF GENESCOPE (hereinafter referred to as GENESCO) lead wires to Test Point (T.P.) as well as the output terminal of the AM IF Amp. P.C. Board as shown in Fig. 15.
2) Set GENESCO to FM mode and adjust vertical gain (refer to Chart 5).
3) Set Tuner Source Selector to AM and set the tuning indicator needle to extreme right end of dial.

   NOTE: Noise should not enter the single peaked curve shown in Fig. 16.
4) Adjust output level of GENESCO (refer to Chart 5).
5) Adjust the core of AM IF Amp. P.C. Board IFT T3 (BLK) so that the 455 kHz marker point of the single peaked curve displays maximum amplitude as shown in Fig. 16.
6) Adjust the cores of AM IF Amp. P.C. Board IFT T2 (WHT), T1 (YLW) so that the left and right rise up characteristics of the single peaked curve shown in Fig. 16 are identical from the center (indicated by the dotted line in the figure).

7) AM IF AMP. P.C. BOARD 81-5047

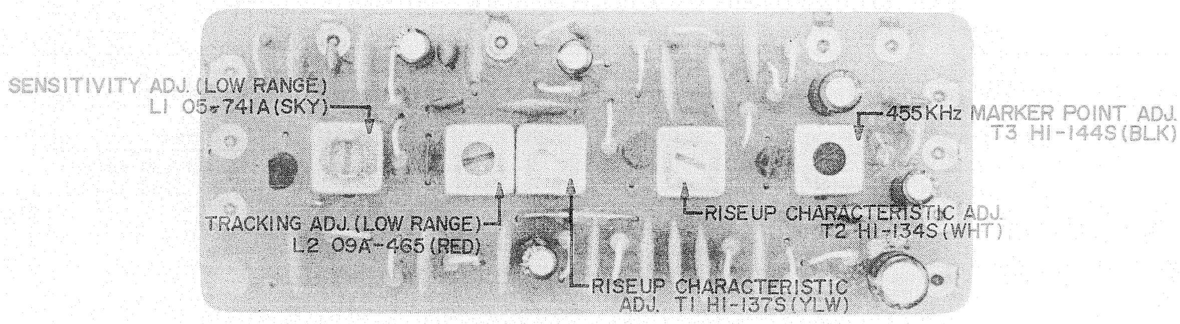

SENSITIVITY ADJ. (LOW RANGE)
L1 05-741A(SKY)
455KHz MARKER POINT ADJ.
T3 HI-144S(BLK)
TRACKING ADJ. (LOW RANGE)
L2 09A-465 (RED)
RISEUP CHARACTERISTIC ADJ.
T2 HI-134S(WHT)
RISEUP CHARACTERISTIC
ADJ. T1 HI-137S(YLW)

Fig. 17 FACE SIDE

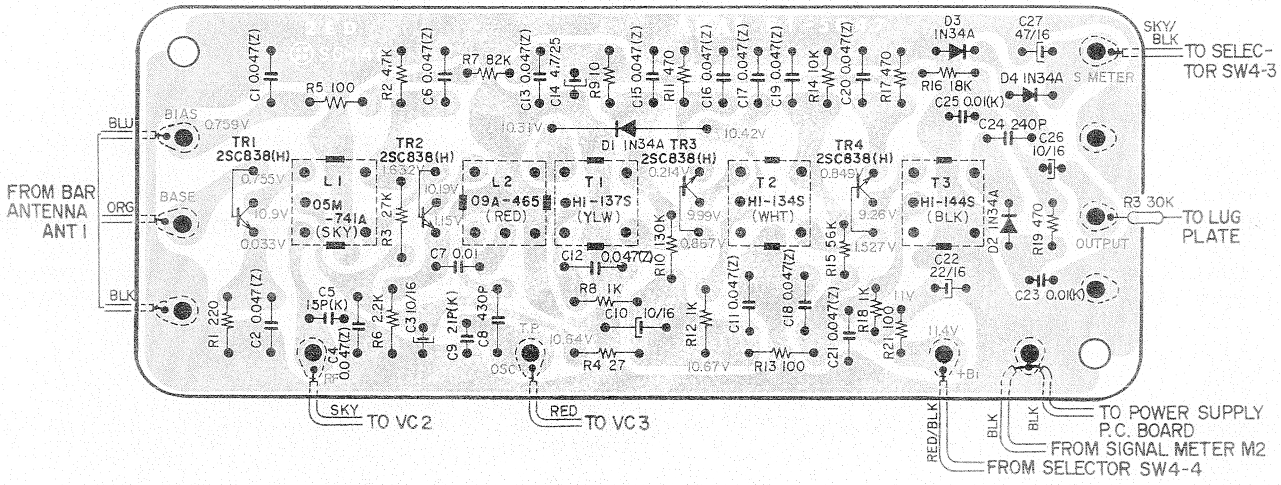

C1 0.047(Z)
R5 100
R2 4.7K
C6 0.047(Z)
R7 82K
C13 0.047(Z)
C14 4.7/25
R9 10
C15 0.047(Z)
R11 470
C16 0.047(Z)
C17 0.047(Z)
C19 0.047(Z)
R14 10K
C20 0.047(Z)
R17 470
D3 IN34A
C27 47/16
R16 18K
D4 IN34A
C25 0.01(K)
C24 240P
C26 10/16
SKY/BLK
TO SELECTOR SW4-3
S METER
BIAS
0.759V
BLU
10.31V
D1 IN34A
10.42V
TR1 2SC838(H)
TR2 2SC838(H)
TR3 2SC838(H)
TR4 2SC838(H)
FROM BAR ANTENNA ANT1
ORG
BASE
0.755V
10.9V
0.033V
L1 05M-741A (SKY)
1.632V
10.19V
1.15V
R3 27K
L2 09A-465 (RED)
T1 HI-137S (YLW)
0.214V
9.99V
0.867V
R10 130K
T2 HI-134S (WHT)
0.849V
9.26V
1.527V
R15 56K
T3 HI-144S (BLK)
D2 IN34A
R19 470
R3 30K
OUTPUT
TO LUG PLATE
C7 0.01
C12 0.047(Z)
C22 22/16
C23 0.01(K)
BLK
R1 220
C2 0.047(Z)
C5 15P(K)
C4 0.047(Z)
R6 2.2K
C3 10/16
C9 21P(K)
C8 430P
R8 1K
C10 10/16
R12 1K
C11 0.047(Z)
C18 0.047(Z)
C21 0.047(Z)
R18 1K
R21 100
11V
11.4V
T.P.
10.64V
R4 27
10.67V
R13 100
RF
OSC
+B1
SKY
TO VC2
RED
TO VC3
RED/BLK
BLK
BLK
TO POWER SUPPLY P.C. BOARD
FROM SIGNAL METER M2
FROM SELECTOR SW4-4

Fig. 18 REVERSE SIDE

8) AM IF AMP. P.C. BOARD T5-5029

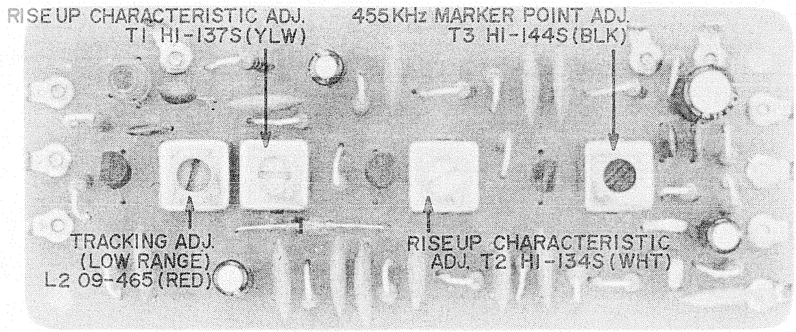

RISE UP CHARACTERISTIC ADJ.
T1 HI-137S (YLW)
455KHz MARKER POINT ADJ.
T3 HI-144S (BLK)
TRACKING ADJ.
(LOW RANGE)
L2 09-465 (RED)
RISE UP CHARACTERISTIC
ADJ. T2 HI-134S (WHT)

Fig. 19 FACE SIDE

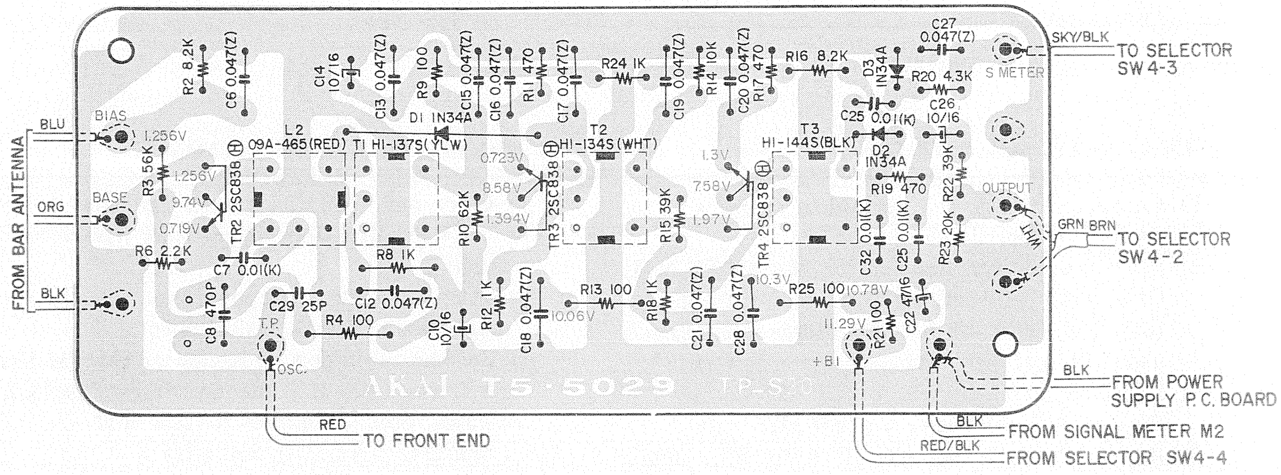

FROM BAR ANTENNA
BLU
ORG
BLK
BIAS
BASE
1.256V
R3 56K
1.256V
9.74V
0.719V
TR2 2SC838
R2 8.2K
C6 0.047(Z)
C14 10/16
C13 0.047(Z)
R9 100
C15 0.047(Z)
C16 0.047(Z)
R11 470
C17 0.047(Z)
R24 1K
C19 0.047(Z)
R14 10K
C20 0.047(Z)
R17 470
R16 8.2K
D3 IN34A
C27 0.047(Z)
R20 4.3K
S METER
SKY/BLK
TO SELECTOR SW 4-3
D1 IN34A
L2 09A-465 (RED)
T1 HI-137S (YLW)
T2 HI-134S (WHT)
0.723V
8.58V
1.394V
R10 62K
TR3 2SC838
R15 39K
1.3V
7.58V
1.97V
TR4 2SC838
T3 HI-144S (BLK)
C25 0.01(K)
C26 10/16
D2 IN34A
R19 470
R22 39K
OUTPUT
C32 0.01(K)
C25 0.01(K)
R23 20K
WHT
GRN
BRN
TO SELECTOR SW 4-2
R6 2.2K
C7 0.01(K)
R8 1K
C8 470P
C29 25P
C12 0.047(Z)
R4 100
T.P.
OSC.
C10 10/16
R12 1K
C18 0.047(Z)
10.06V
R13 100
R18 1K
C21 0.047(Z)
C28 0.047(Z)
10.3V
R25 100
10.78V
11.29V
R21 100
C22 47/16
+B1
AKAI T5-5029
RED
TO FRONT END
BLK
FROM POWER SUPPLY P.C. BOARD
BLK
FROM SIGNAL METER M2
RED/BLK
FROM SELECTOR SW4-4

Fig. 20 REVERSE SIDE

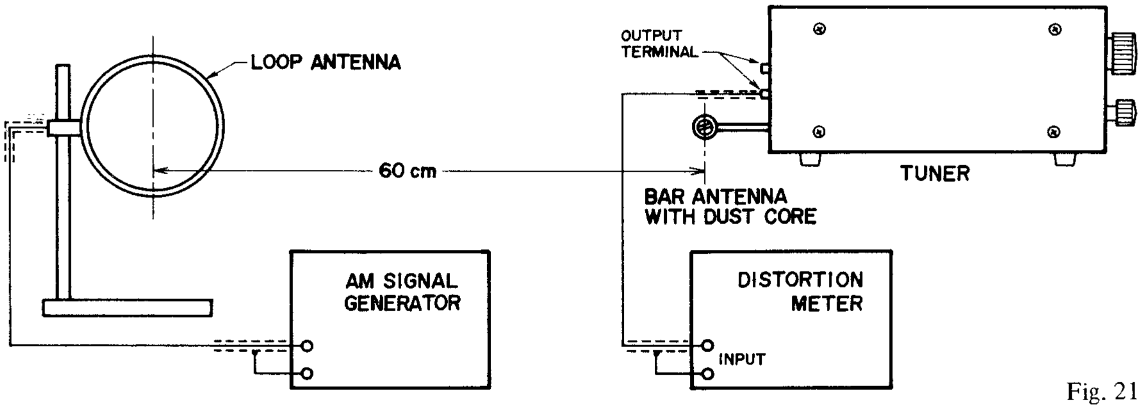


Fig. 21

	MODEL AT-580	MODEL AT-550
AM S.G. OUTPUT	60 dB	56 dB
CORE (Low Range)	L2 (RED)	L2 (RED)
TRIMMER CONDENSER (High Range)	TC3	TC3

Chart 6

	MODEL AT-580	MODEL AT-550
BAR ANTENNA DUST CORE (Low Range)	ANT1	ANT1
TRIMMER CONDENSER (High Range)	TC1, TC2	TC2

Chart 7

2. TRACKING ADJUSTMENT

1) Connect the various measuring instruments as shown in Fig. 21.
2) Set the oscillation frequency of the AM SIGNAL GENERATOR (hereinafter referred to as AM S.G) to 550 kHz (400 Hz 30% internal modulation) and adjust the AM S.G. Attenuator (refer to Chart 6).
3) Set Tuner Source Selector to AM and set the tuning indicator needle to 550 kHz.
4) Adjust the core of AM IF Amp. P.C. Board tracking adjustment coil L2 in Figs. 17, 19 until the distortion meter level is maximum and the distortion factor is minimum.
5) Set the oscillation frequency of AM S.G. and tuning indicator needle of tuner to 1,600 kHz.
6) Adjust front end trimmer condensers in Figs. 22, 24 until the distortion meter level is maximum and the distortion factor is minimum. (Refer to Chart 6)
7) Repeat adjustments outlined in Items 2) through 6) two or three times for minimum tracking error.

3. SENSITIVITY ADJUSTMENT

1) Carry out these adjustments after the previously described Tracking Adjustments have been completed.
2) Measuring instrument connections are the same as described in Tracking Adjustments.
3) Set the oscillation frequency of the AM S.G. to 550 kHz (400 Hz, 30% internal modulation). Set Tuner Source Selector to AM and the tuning indicator needle to 550 kHz.
4) Adjust AM S.G. Attenuator to obtain a 10% distortion factor.
5) Adjust dust core of Bar Antenna shown in Fig. 21 until the distortion meter level is maximum and the distortion factor is minimum.
6) In the case of Model AT-580, also adjust the core of AM IF Amp. P.C. Board Coil L1 (SKY) shown in Fig. 17.
7) Set oscillation frequency of AM S.G. and Tuning Indicator needle of tuner to 1,600 kHz.
8) Adjust AM S.G. Attenuator to obtain a 10% distortion factor.
9) Adjust front end trimmer condensers in Figs. 22, 24 until the distortion meter level is maximum and the distortion factor is minimum. (Refer to Chart 7)
10) Repeat adjustments outlined in Items 3) through 9) at 550 kHz, 1,000 kHz, and 1,600 kHz two or three times for highest sensitivity.

VI. ADJUSTMENT POINTS OF FRONT END

1. FRONT END FL517U15

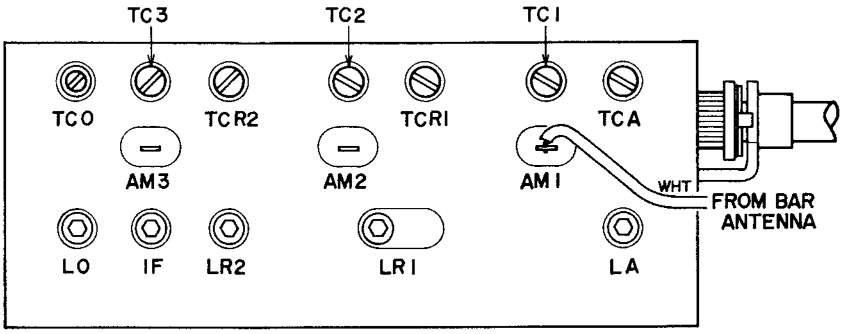

TC3
TC2
TC1
TCO
TCR2
TCR1
TCA
AM3
AM2
AM1
WHT
FROM BAR ANTENNA
LO
IF
LR2
LR1
LA

Fig. 22

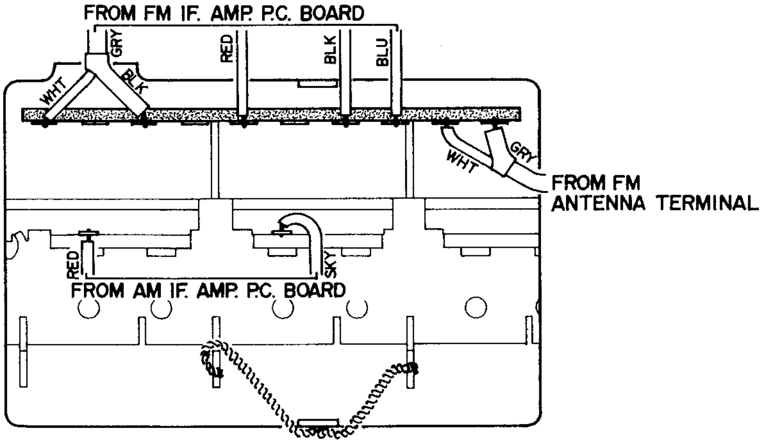

FROM FM IF. AMP. P.C. BOARD
GRY
WHT
BLK
RED
BLK
BLU
WHT
GRY
FROM FM ANTENNA TERMINAL
RED
SKY
FROM AM IF. AMP. P.C. BOARD

Fig. 23

2. FRONT END FL315U19

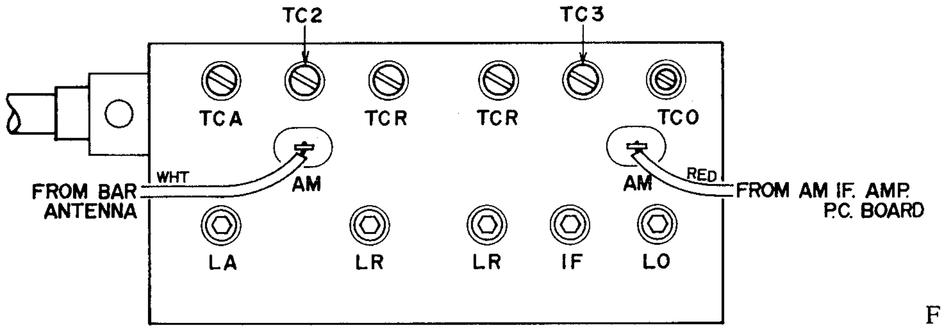

TC2
TC3
TCA
TCR
TCR
TCO
WHT
FROM BAR ANTENNA
AM
AM
RED
FROM AM IF. AMP. P.C. BOARD
LA
LR
LR
IF
LO

Fig. 24

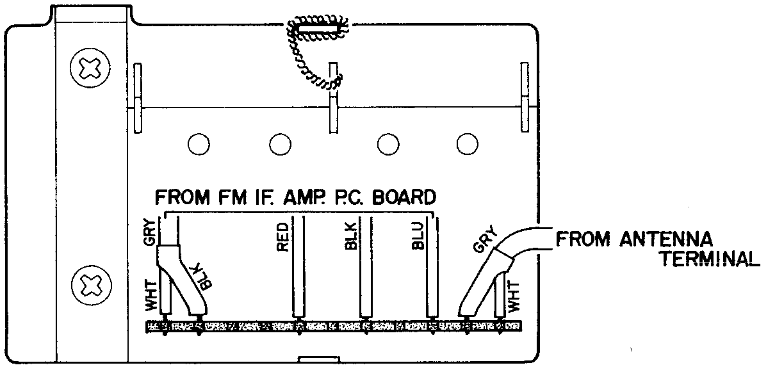

FROM FM IF. AMP. P.C. BOARD
GRY
BLK
WHT
RED
BLK
BLU
GRY
WHT
FROM ANTENNA TERMINAL

Fig. 25

VII. COMPOSITE VIEWS OF COMPONENTS

1. LINE AMP. P.C. BOARD T5-5058

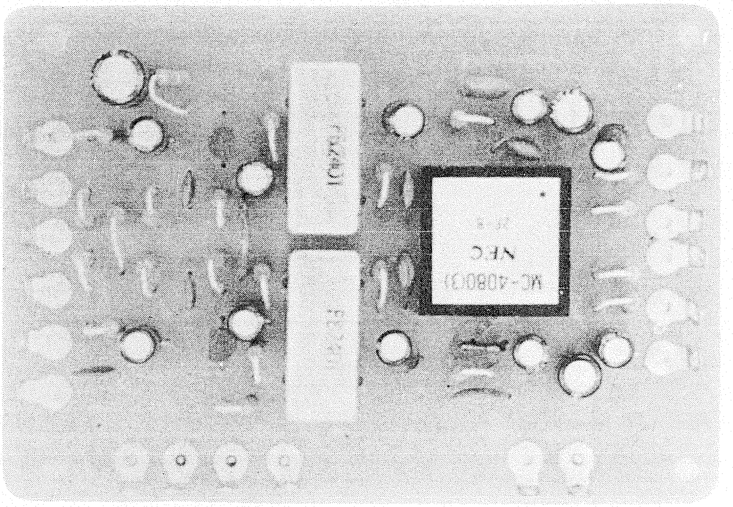


Fig. 26 FACE SIDE

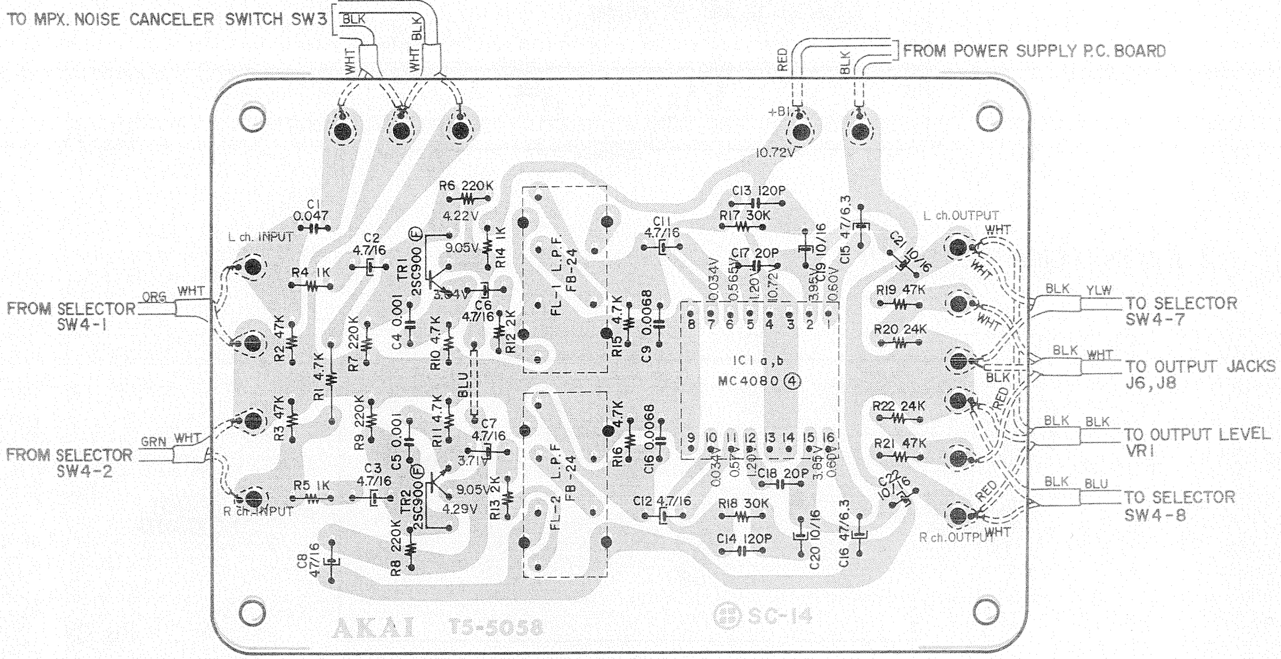

TO MPX. NOISE CANCELER SWITCH SW3
BLK
WHT
WHT
BLK
RED
BLK
FROM POWER SUPPLY P.C. BOARD
+B1
10.72V
FROM SELECTOR SW4-1
ORG
WHT
FROM SELECTOR SW4-2
GRN
WHT
L ch. INPUT
R ch. INPUT
C1 0.047
C2 4.7/16
R4 1K
R2 4.7K
R1 4.7K
R3 47K
R7 220K
C4 0.001
R9 220K
C5 0.001
R5 1K
C3 4.7/16
R8 220K
C8 47/16
TR1 2SC900 F
TR2 2SC900 F
R6 220K
4.22V
9.05V
3.34V
R14 1K
C6 4.7/16
R10 4.7K
R12 2K
BLU
R11 4.7K
C7 4.7/16
3.71V
9.05V
4.29V
R13 2K
FL-1 L.P.F. FB-24
FL-2 L.P.F FB-24
R15 4.7K
C9 0.0068
R16 4.7K
C16 0.0068
C11 4.7/16
C12 4.7/16
C13 120P
R17 30K
C17 20P
C19 10/16
C15 47/6.3
IC1 a,b
MC4080 ④
8 7 6 5 4 3 2 1
9 10 11 12 13 14 15 16
C18 20P
R18 30K
C14 120P
C20 10/16
C16 47/6.3
L ch. OUTPUT
R ch. OUTPUT
C21 10/16
C22 10/16
R19 47K
R20 24K
R22 24K
R21 47K
WHT
RED
BLK
YLW
TO SELECTOR SW4-7
BLK
WHT
TO OUTPUT JACKS J6, J8
BLK
BLK
TO OUTPUT LEVEL VR1
BLK
BLU
TO SELECTOR SW4-8
AKAI T5-5058
SC-14

Fig. 27 REVERSE SIDE

2. LINE AMP. P.C. BOARD T5-5028

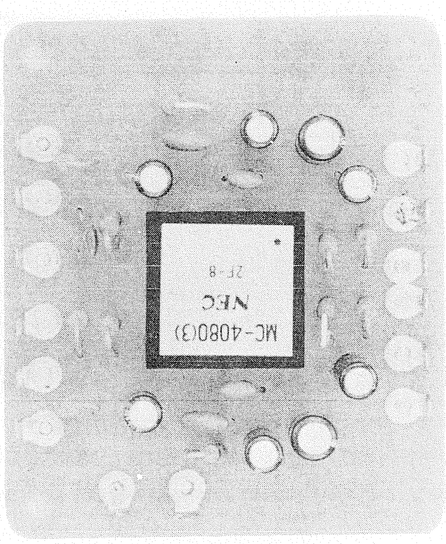

MC-4080(3)
NEC
2F-8

Fig. 28 FACE SIDE

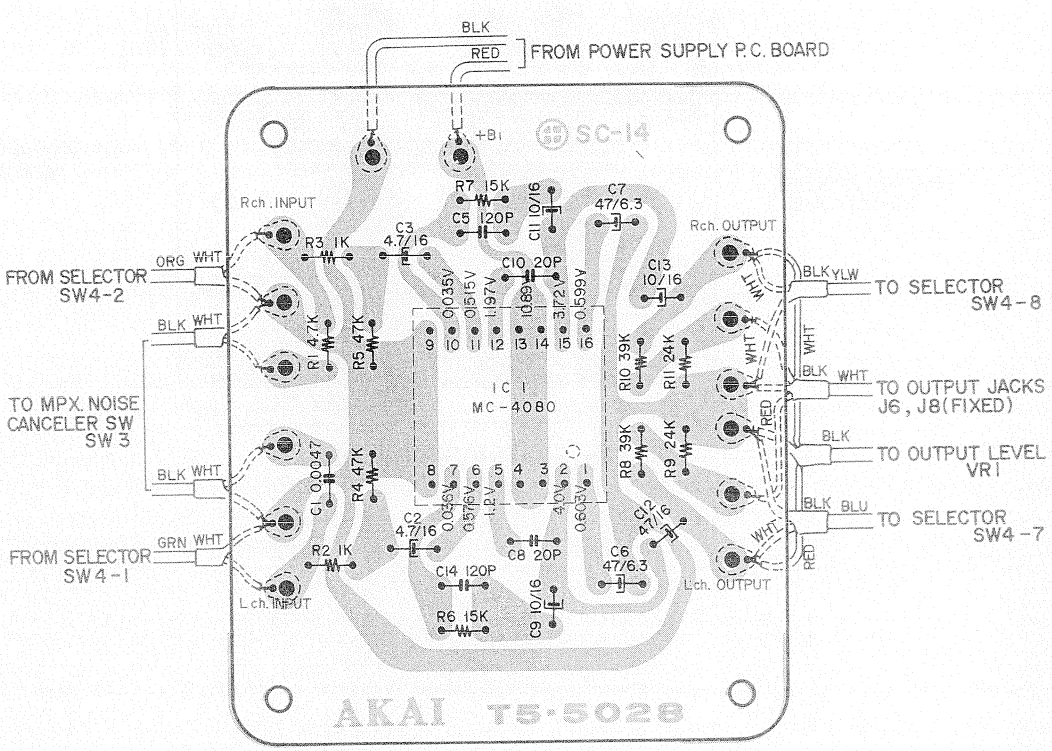

BLK
RED
FROM POWER SUPPLY P.C. BOARD
+B1
SC-14
Rch. INPUT
FROM SELECTOR SW4-2
ORG
WHT
BLK
WHT
TO MPX. NOISE CANCELER SW SW 3
BLK
WHT
GRN
WHT
FROM SELECTOR SW4-1
Lch. INPUT
R3 1K
R1 4.7K
R5 47K
C1 0.0047
R4 47K
R2 1K
C3 4.7/16
C2 4.7/16
R7 15K
C5 120P
C11 10/16
C10 20P
C14 120P
R6 15K
C9 10/16
C8 20P
0.035V
0.515V
1.97V
10.89V
3.72V
0.599V
9 10 11 12 13 14 15 16
IC 1
MC-4080
8 7 6 5 4 3 2 1
0.036V
0.576V
1.2V
4.0V
0.603V
C7 47/6.3
C13 10/16
R10 39K
R11 24K
R8 39K
R9 24K
C12 47/16
C6 47/6.3
Rch. OUTPUT
Lch. OUTPUT
WHT
WHT
WHT
RED
WHT
RED
BLK
YLW
TO SELECTOR SW4-8
BLK
WHT
TO OUTPUT JACKS J6, J8(FIXED)
BLK
TO OUTPUT LEVEL VR1
BLK
BLU
TO SELECTOR SW4-7
AKAI T5-5028

Fig. 29 REVERSE SIDE

3. HEAD PHONE AMP. P.C. BOARD T5-5060

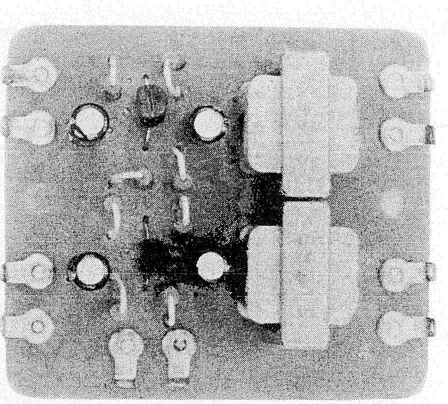


Fig. 30 FACE SIDE

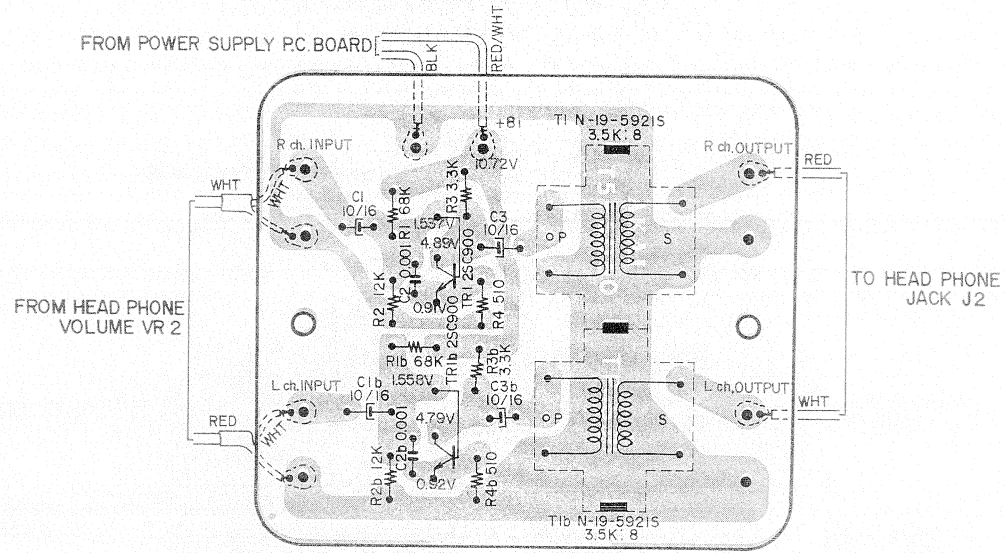

FROM POWER SUPPLY P.C. BOARD
BLK
RED/WHT
+B1
10.72V
T1 N-19-5921S
3.5K: 8
R ch. INPUT
WHT
WHT
C1
10/16
R1 68K
R3 3.3K
1.557V
4.89V
C3
10/16
C2 0.001
R2 12K
0.91V
TR1 2SC900
R4 510
P
S
R ch. OUTPUT
RED
TO HEAD PHONE
JACK J2
FROM HEAD PHONE
VOLUME VR 2
R1b 68K
TR1b 2SC900
R3b 3.3K
1.558V
L ch. INPUT
C1b
10/16
C3b
10/16
4.79V
C2b 0.001
R2b 12K
0.92V
R4b 510
RED
WHT
P
S
L ch. OUTPUT
WHT
T1b N-19-5921S
3.5K: 8

Fig. 31 REVERSE SIDE

4. POWER SUPPLY P.C. BOARD T5-5032

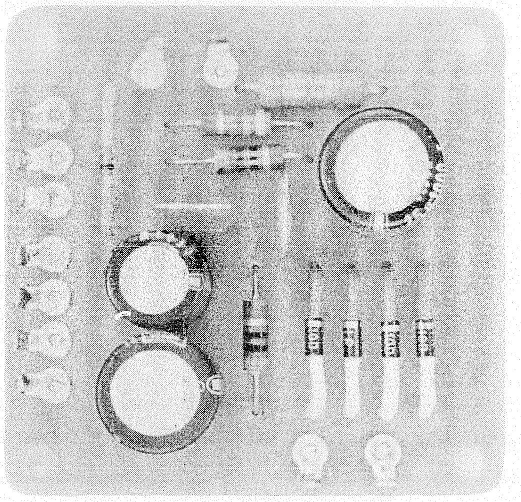
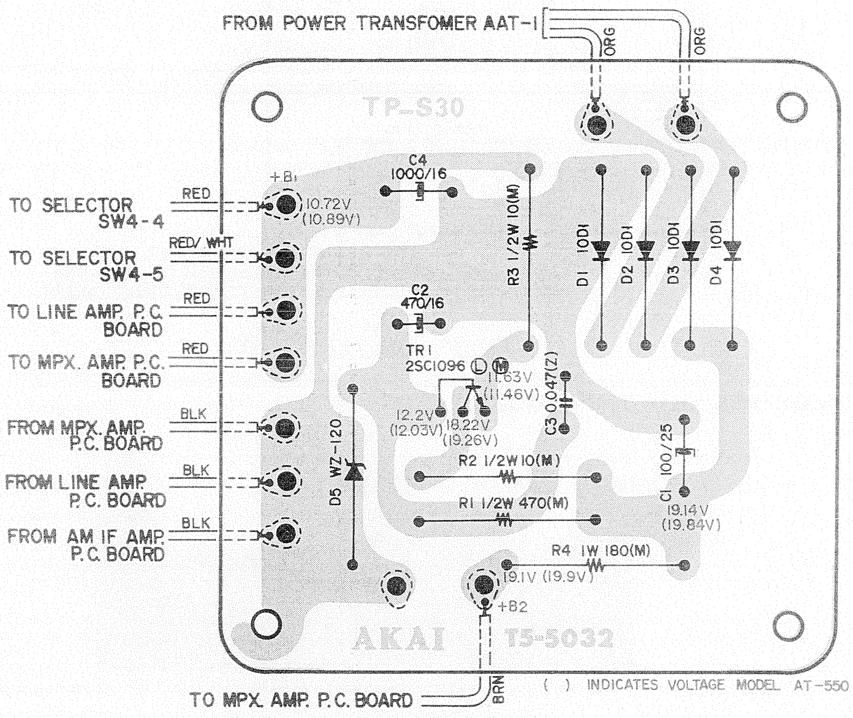


Fig. 32 FACE SIDE


FROM POWER TRANSFOMER AAT-1
ORG
ORG
TP-S30
+B1
C4
1000/16
RED
TO SELECTOR SW4-4
10.72V
(10.89V)
RED/ WHT
TO SELECTOR SW4-5
R3 1/2W 10(M)
D1 10D1
D2 10D1
D3 10D1
D4 10D1
C2
470/16
RED
TO LINE AMP. P.C. BOARD
RED
TO MPX. AMP. P.C. BOARD
TR1
2SC1096 Ⓛ Ⓜ
11.63V
(11.46V)
C3 0.047(Z)
12.2V
(12.03V)
18.22V
(19.26V)
BLK
FROM MPX. AMP. P.C. BOARD
D5 WZ-120
C1 100/25
R2 1/2W 10(M)
BLK
FROM LINE AMP. P.C. BOARD
R1 1/2W 470(M)
19.14V
(19.84V)
BLK
FROM AM IF AMP. P.C. BOARD
R4 1W 180(M)
19.1V (19.9V)
+B2
AKAI T5-5032
TO MPX. AMP. P.C. BOARD
BRN

( ) INDICATES VOLTAGE MODEL AT-550

Fig. 33 REVERSE SIDE

5. FUSE P.C. BOARD T5-5034

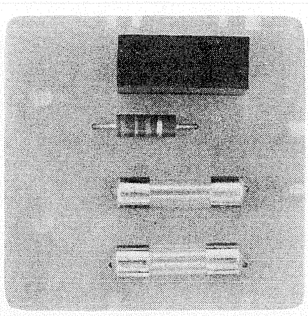


Fig. 34 FACE SIDE

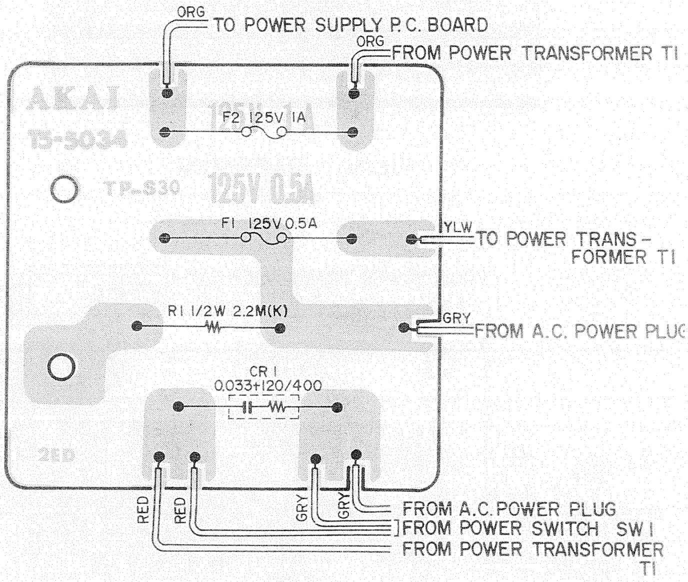

ORG
TO POWER SUPPLY P.C. BOARD
ORG
FROM POWER TRANSFORMER TI
AKAI
T5-5034
F2 125V 1A
125V 1A
TP-S30
125V 0.5A
FI 125V 0.5A
YLW
TO POWER TRANS-FORMER TI
RI 1/2W 2.2M(K)
GRY
FROM A.C. POWER PLUG
CR I
0.033+120/400
2ED
RED
RED
GRY
GRY
FROM A.C. POWER PLUG
FROM POWER SWITCH SW I
FROM POWER TRANSFORMER TI

Fig. 35 REVERSE SIDE

6. METER LAMP P.C. BOARD T5-5012

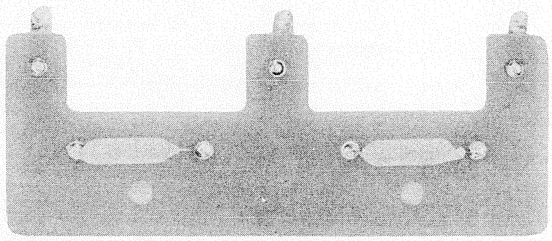


Fig. 36 FACE SIDE

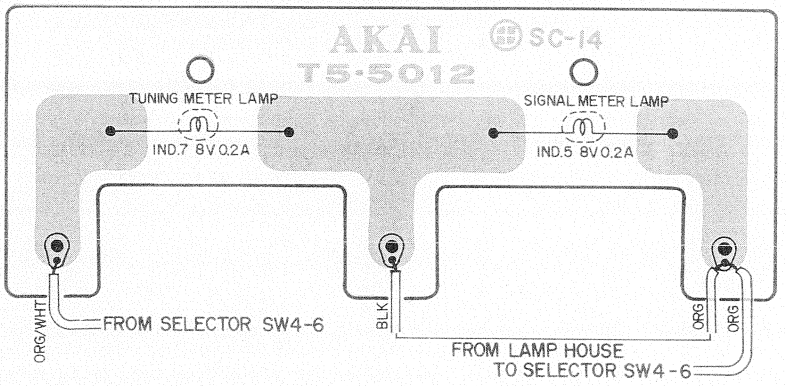

AKAI
SC-14
T5-5012
TUNING METER LAMP
IND.7 8V 0.2A
SIGNAL METER LAMP
IND.5 8V 0.2A
ORG/WHT
FROM SELECTOR SW4-6
BLK
ORG
ORG
FROM LAMP HOUSE
TO SELECTOR SW4-6

Fig. 37 REVERSE SIDE

VIII. TUNING CORD THREADING

NOTE: Vanes must be closed to max. before threading the tuning cord.

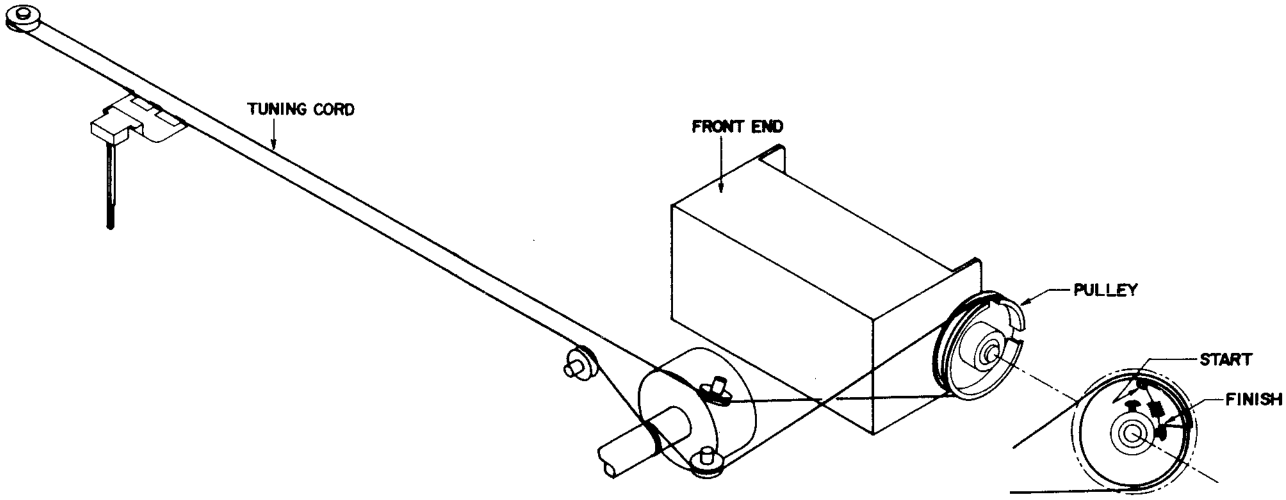

TUNING CORD
FRONT END
PULLEY
START
FINISH

Fig. 38

MEMO:

SECTION 2

PARTS LIST

TABLE OF CONTENTS

FIG. 1 FM. IF P.C. BOARD (T5-5059) BLOCK 28
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FIG. 3 MPX P.C. BOARD (T5-5031) BLOCK 30
FIG. 4 AM. IF P.C. BOARD (81-5047)/(T5-5029) BLOCK..... 30
FIG. 5 LINE AMP. P.C. BOARD (T5-5058) BLOCK.......... 31
FIG. 6 LINE AMP. P.C. BOARD (T5-5028) BLOCK.......... 32
FIG. 7 HEAD PHONE AMP. P.C. BOARD (T5-5060) BLOCK.. 32
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HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read list.

The reference number corresponds with illustration or photo number of that particular parts list.

This number corresponds with the Figure Number.

This number corresponds with the individual parts index number in that figure.

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

12-115x

Schematic Diagram Number of individual manufactured part.
(not required for parts order)

Quantity of particular part required.

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		FLYWHEEL BLOCK #13		
12-115x	800425	Flywheel Block Assy. Comp.	RDG#13	1
12-116	244506	Flywheel Only	RD-233	1
12-117x	244754	Felt, Flywheel	RD-275	1
12-118	251324	Main Metal Case	RD-236	1
12-119	253080	Main Metal	RD-237	1

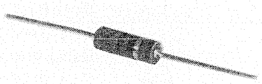
4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram or Service Manual.
5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.

   It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

ELECTRICAL PARTS TABLE

Because the indication of resistors and capacitors in the P. C. Board photos are being eliminated, please confirm parts name and shape by comparing them with the parts shown in this table.

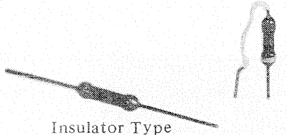
1



Solid Resistor

2

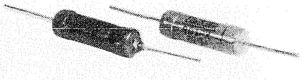
Stopper Type



Insulator Type

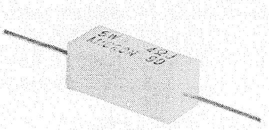
Carbon Resistor

3



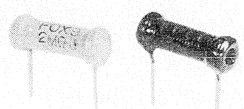
Metal Oxide Film Resistor

4



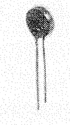
Cement Resistor

5



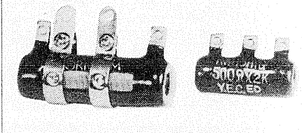
Wire-Wound Resistor

6



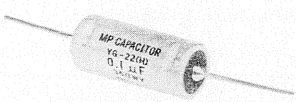
Thermister

7



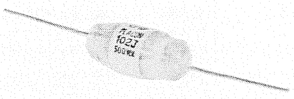
Enamel Resistor

1



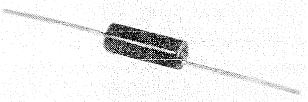
MP Capacitor (Tubular Type)

2



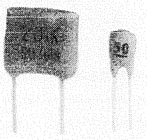
Plastic Capacitor

3



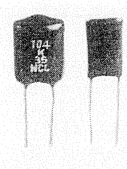
Mylar Capacitor

4



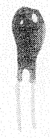
VFM (Hi-Q) Capacitor

5



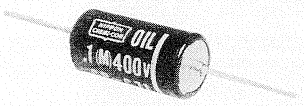
Mylar Capacitor

6



Tantalum Capacitor

7

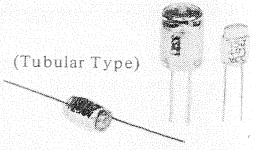


Oil Capacitor (Tubular Type)

8

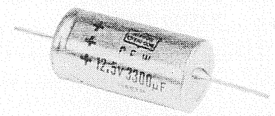
Vertical Type

(Tubular Type)



Styrol Capacitor

9

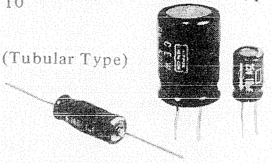


Electrolytic Capacitor (Tubular Type)

10

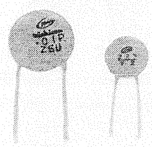
Vertical Type

(Tubular Type)



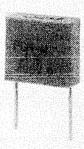
Electrolytic Capacitor

11



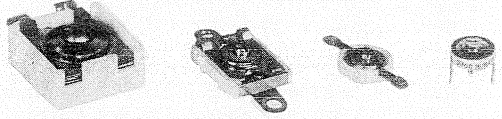
Ceramic Capacitor

12



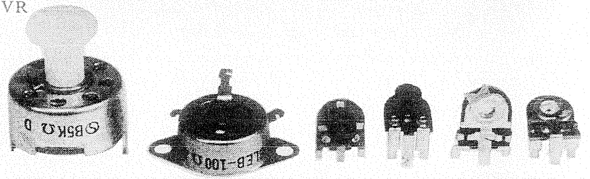
Metalized Mylar (Paper) Capacitor

13



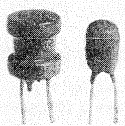
Trimmer Condenser

VR



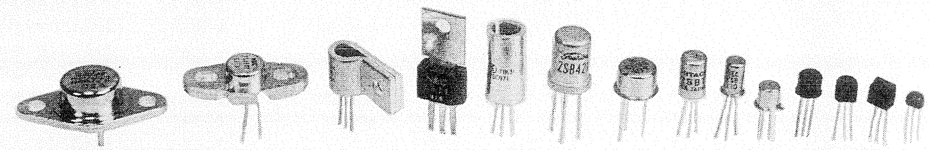
Semi-Fixed Volume

L



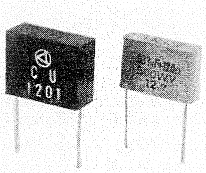
Ferri Inductor

TR



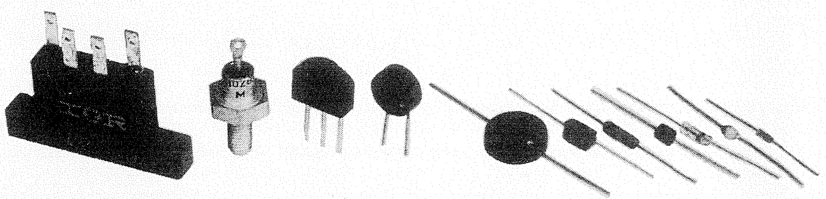
Transistor

CR



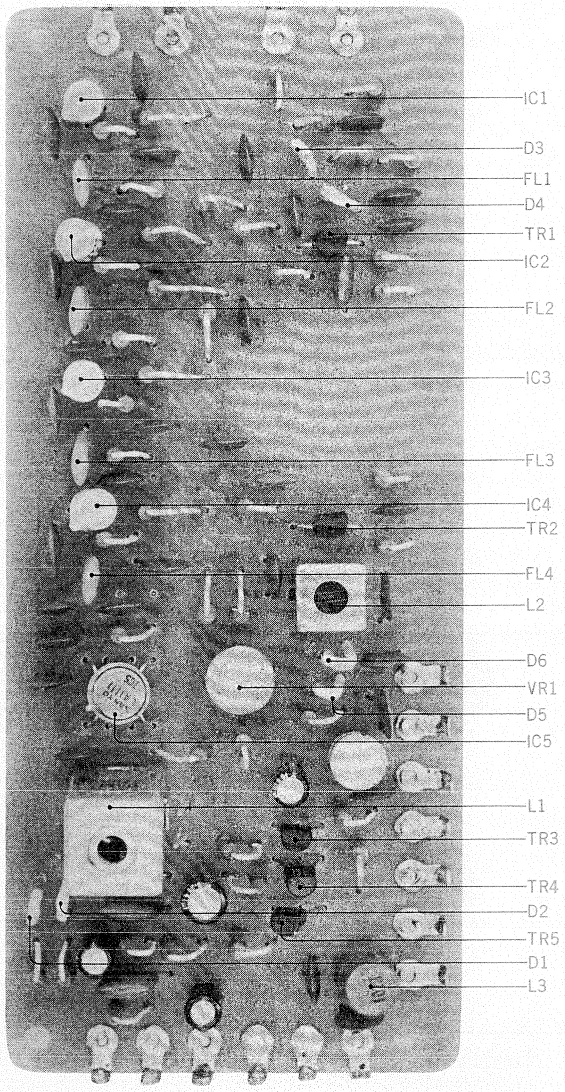
Spark Quencher

D



Diode (Silicon, Zener, Germanium)

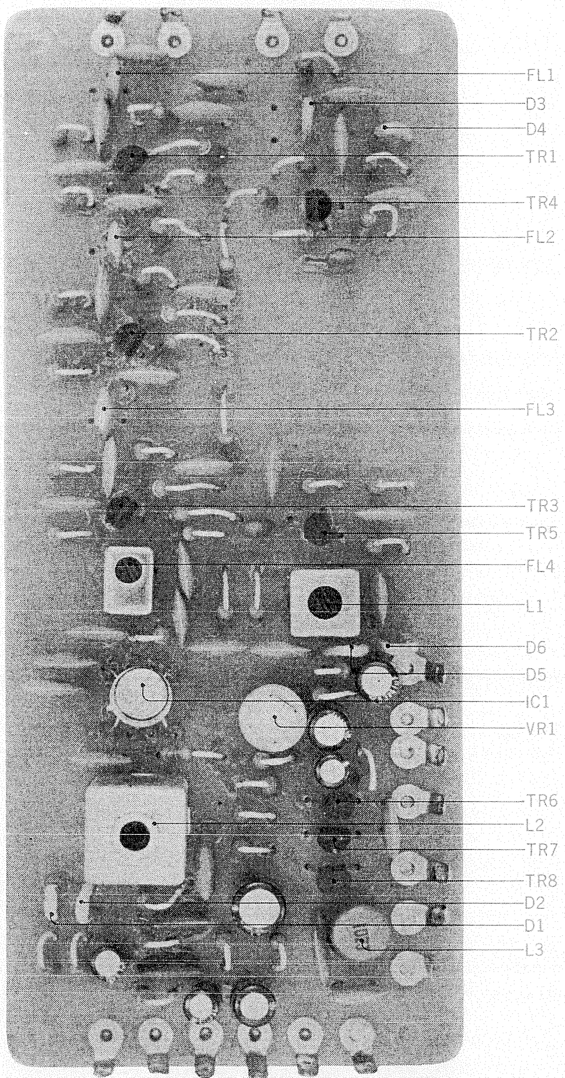
FIG. 1 PHOTO OF FM. IF P.C. BOARD (T5-5059)



FM. IF P.C. BOARD (T5-5059) BLOCK

Symbol No.	Parts No.	Description	Q'ty
1-1x	BA514394	FM. IF P.C. Board Comp. (T5-5059)	1
1-IC1 to 4	BI469967	I.C. LA-1221	4
1-IC5	EI443665	I.C. LA1111	1
1-TR1, 2	ET510693	Transistor 2SC922(L) (M)	2
1-TR3 to 5	ET398788	Transistor 2SC945(R)	3
1-D1, 2	ED379855	Germanium Diode 1N60P	2
1-D3 to 6	ED428264	Germanium Diode 1N60	4
1-FL1 to 4	ER492355	Ceramic Filter CFS-107M	4
1-L1	EO537232	Coil O5M-1376	1
1-L2	EO443700	Tuning Coil O5M-755 (10.7MHz)	1
1-L3	EO443722	Ferri Inductor FL9H 1MH(J)	1
1-VR1	EV443733	Semi-fixed Volume SR19R 68 kB (Solid type)	1
		Capacitor, Vertical Type	
1-C1 to 32	EC513933	Ceramic TLD08F 0.022μF (Z) 25WV	32
1-C33, 34	EC290520	VFM 100PF(J) 50WV	2
1-C35, 36	EC329850	VFM 220PF(J) 50WV	2
1-C37	EC428995	VFM 25PF(J) 50WV	1
1-C38	EC320051	Elect. 10μF 16WV	1
1-C39	EC329771	Elect. 47μF 6.3WV	1
1-C40	EC350706	Elect. 4.7μF 16WV	1
1-C41	EC220364	Elect. 100μF 6.3WV	1
1-C42	EC320051	Elect. 10μF 16WV	1
		Resistor, Stopper Type	
1-R1	ER304290	Carbon RD1/4 10(J)	1
1-R2	ER211465	Carbon RD1/4 1k(J)	1
1-R3	ER304290	Carbon RD1/4 10(J)	1
1-R4	ER211465	Carbon RD1/4 1k(J)	1
1-R5, 6	ER213096	Carbon RD1/4 510(J)	2
1-R7, 8	ER304290	Carbon RD1/4 10(J)	2
1-R9	ER211465	Carbon RD1/4 1k(J)	1
1-R10	ER213096	Carbon RD1/4 510(J)	1
1-R11	ER304290	Carbon RD1/4 10(J)	1
1-R12	ER211465	Carbon RD1/4 1k(J)	1
1-R13	ER304290	Carbon RD1/4 10(J)	1
1-R14	ER212681	Carbon RD1/4 330(J)	1
1-R15, 16	ER211667	Carbon RD1/4 100(J)	2
1-R17, 18	ER211465	Carbon RD1/4 1k(J)	2
1-R19 to 21	ER212883	Carbon RD1/4 4.7k(J)	3
1-R22	ER211667	Carbon RD1/4 100(J)	1
1-R23	ER361528	Carbon RD1/4 56k(J)	1
1-R24	ER357491	Carbon RD1/4 82k(J)	1
1-R25	ER211757	Carbon RD1/4 100k(J)	1
1-R26	ER346601	Carbon RD1/4 47k(J)	1
1-R27	ER362520	Carbon RD1/4 75k(J)	1
1-R28	ER213096	Carbon RD1/4 510(J)	1
1-R29	ER371946	Carbon RD1/4 2k(J)	1
1-R30	ER336442	Carbon RD1/4 10k(J)	1
1-R31	ER379473	Carbon RD1/4 30k(J)	1
1-R32	ER356501	Carbon RD1/4 56(J) (Insu. type)	1
1-R33	ER212883	Carbon RD1/4 4.7k(J)	1
1-R34	ER371946	Carbon RD1/4 2k(J)	1
1-R35	ER211465	Carbon RD1/4 1k(J)	1
1-R36	ER211667	Carbon RD1/4 100(J)	1
1-R37	ER336442	Carbon RD1/4 10k(J)	1
1-R38	ER357491	Carbon RD1/4 82k(J)	1
1-R39	ER352045	Carbon RD1/4 3.9k(J)	1
1-R40	ER213030	Carbon RD1/4 5.6k(J)	1
1-R41	ER211465	Carbon RD1/4 1k(J)	1
1-R42	ER361642	Carbon RD1/4 47(J)	1
1-R43	ER357456	Carbon RD1/4 2.2k(J)	1
1-R44	ER211667	Carbon RD1/4 100(J)	1

FIG. 2 PHOTO OF FM. IF P.C. BOARD (T5-5030)



FM. IF P.C. BOARD (T5-5030) BLOCK

Symbol No.	Parts No.	Description	Q'ty
2-1x	BA514225	FM. IF P.C. Board Comp. (T5-5030) (AT-550)	1
2-IC1	EI443665	I.C. LA1111	1
2-TR1 to 5	ET510693	Transistor 2SC922(L) (M)	5
2-TR6 to 8	ET398711	Transistor 2SC945(Q) (R)	3
2-D1, 2	ED379855	Germanium Diode 1N60P	2
2-D3 to 6	ED428264	Germanium Diode 1N60	4
2-FL1 to 3	ER492355	Ceramic Filter CFS-107M	3
2-FL4	ER510704	Ceramic Filter CFQ-107M	1
2-L1	EO443700	Tuning Coil 05M-755(10.7MHz)	1
2-L2	EO537232	Coil 05M-1376	1
2-L3	EO443722	Ferri Inductor FL9H 1MH(J)	1
2-VR1	EV443733	Semi-fixed Volume SR19R68 kB (Solid type)	1
		Capacitor, Vertical Type	
2-C1 to 31	EC404256	Ceramic DD610YM 0.015μF(Z) 50WV	1
2-C32	EC320040	Elect. 47μF 16WV	1
2-C33, 34	EC320051	Elect. 10μF 16WV	1
2-C35	EC350706	Elect. 4.7μF 16WV	1
2-C36, 37	EC329771	Elect. 47μF 6.3WV	1
2-C38, 39	EC329850	VFM 220PF(J) 50WV	2
2-C40	EC290520	VFM 100PF(J) 50WV	1
2-C41	EC469675	VFM 5PF(D) 50WV	1
2-C42	EC361721	VFM 27PF(J) 50WV	1
		Resistor, Stopper Type	
2-R1	ER213096	Carbon RD1/4 510(J)	1
2-R2	ER211320	Carbon RD1/4 1.5k(J)	1
2-R3	ER212883	Carbon RD1/4 4.7k(J)	1
2-R4	ER211465	Carbon RD1/4 1k(J)	1
2-R5	ER213096	Carbon RD1/4 510(J)	1
2-R6	ER211667	Carbon RD1/4 100(J)	1
2-R7	ER213096	Carbon RD1/4 510(J)	1
2-R8	ER211320	Carbon RD1/4 1.5k(J)	1
2-R9	ER212883	Carbon RD1/4 4.7k(J)	1
2-R10	ER211667	Carbon RD1/4 100(J)	1
2-R11	ER211465	Carbon RD1/4 1k(J)	1
2-R12, 13	ER213096	Carbon RD1/4 510(J)	2
2-R14	ER211667	Carbon RD1/4 100(J)	1
2-R15	ER211320	Carbon RD1/4 1.5k(J)	1
2-R16	ER212883	Carbon RD1/4 4.7k(J)	1
2-R17	ER211465	Carbon RD1/4 1k(J)	1
2-R18	ER304290	Carbon RD1/4 10(J)	1
2-R19	ER357412	Carbon RD1/4 220(J)	1
2-R20	ER211667	Carbon RD1/4 100(J)	1
2-R21	ER212681	Carbon RD1/4 330(J)	1
2-R22	ER347038	Carbon RD1/4 270(J)	1
2-R23, 24	ER211465	Carbon RD1/4 1k(J)	2
2-R25	ER211667	Carbon RD1/4 100(J)	1
2-R26, 27	ER212883	Carbon RD1/4 4.7k(J)	2
2-R28	ER304290	Carbon RD1/4 10(J)	1
2-R29	ER371946	Carbon RD1/4 2k(J)	1
2-R30	ER336442	Carbon RD1/4 10k(J)	1
2-R31	ER213096	Carbon RD1/4 510(J)	1
2-R32	ER371946	Carbon RD1/4 2k(J)	1
2-R33	ER304290	Carbon RD1/4 10(J)	1
2-R34	ER211667	Carbon RD1/4 100(J)	1
2-R35	ER349907	Carbon RD1/4 33k(J)	1
2-R36	ER430020	Carbon RD1/4 13k(J)	1
2-R37	ER363644	Carbon RD1/4 560(J)	1
2-R38	ER211667	Carbon RD1/4 100(J)	1
2-R39	ER357491	Carbon RD1/4 82k(J)	1
2-R40	ER357456	Carbon RD1/4 2.2k(J)	1
2-R41	ER352045	Carbon RD1/4 3.9k(J)	1
2-R42	ER213030	Carbon RD1/4 5.6k(J)	1
2-R43	ER212883	Carbon RD1/4 4.7k(J)	1
2-R44	ER361642	Carbon RD1/4 47(J)	1
2-R45	ER212883	Carbon RD1/4 4.7k(J)	1
2-R46	ER336442	Carbon RD1/4 10k(J)	1

FIG. 3 PHOTO OF MPX P.C. BOARD (T5-5031)

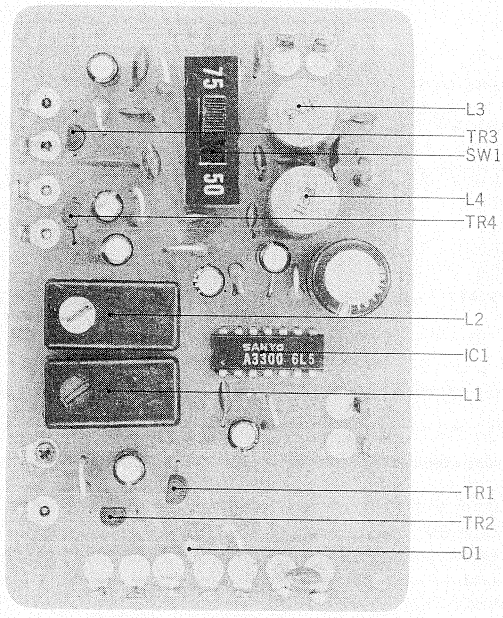
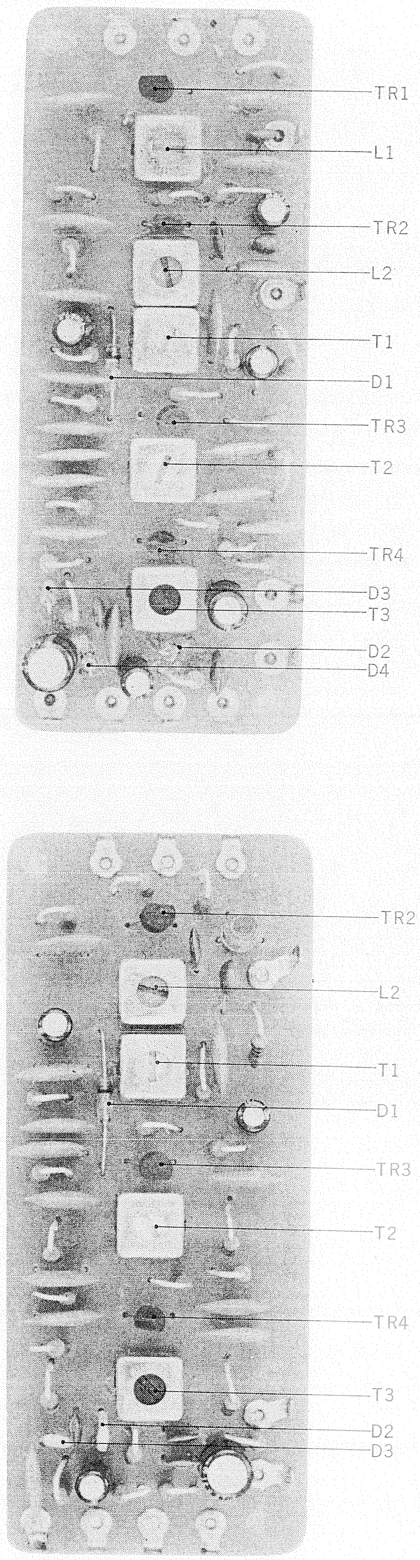


FIG. 4 PHOTO OF AM. IF P.C. BOARD (81-5047)/(T5-5029)



MPX P.C. BOARD (T5-5031) BLOCK

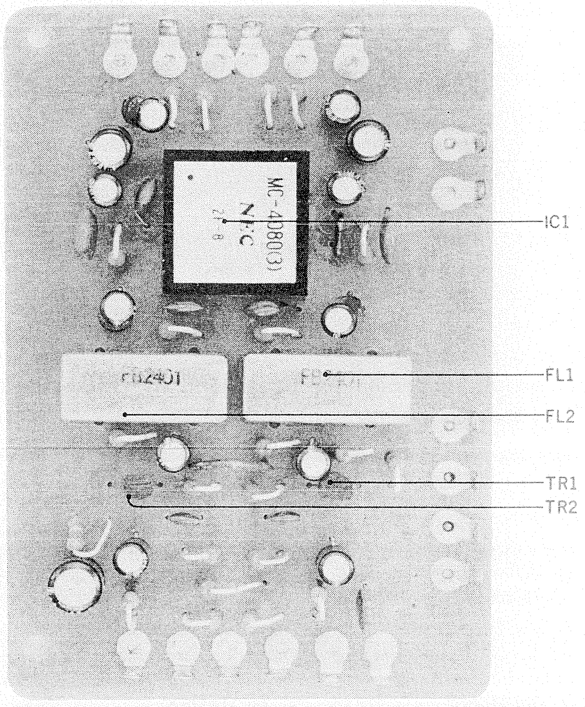
Symbol No.	Parts No.	Description	Q'ty
3-1x	BA514236	MPX P.C. Board Comp. (T5-5031)	1
3-IC1	EI443744	I.C. LA3300	1
3-TR1 to 4	ET398711	Transistor 2SC945(Q) (R)	4
3-D1	ED219464	Germanium Diode 1N34A	1
3-L1	EO443766	Coil (19KC) 02-1070-03 1070(black)	1
3-L2	EO443777	Coil (38KC) 02-1064-03 1064(white)	1
3-L3, 4	EO443788	Choke Coil 7-1133-02 L=40MH	2
3-SW1	ES513922	Slide Switch SSB02242	1
		Capacitor, Vertical Type	
3-C1	EC350706	Elect. 4.7μF 16WV	1
3-C2	EC339096	Elect. 470μF 16WV	1
3-C3, 4	EC350706	Elect. 4.7μF 16WV	2
3-C5	EC337500	Mylar 0.0047μF(J) 50WV	1
3-C6	EC350875	Mylar 0.001μF(J) 50WV	1
3-C7	EC380621	Mylar 0.0068μF(J) 50WV	1
3-C8	EC379765	Mylar 0.0027μF(J) 50WV	1
3-C9	EC311793	Mylar 0.012μF(J) 50WV	1
3-C10	EC350706	Elect. 4.7μF 16WV	1
3-C11	EC389474	Mylar 0.0015μF(J) 50WV	1
3-C12	EC350706	Elect. 4.7μF 16WV	1
3-C13	EC337500	Mylar 0.0047μF(J) 50WV	1
3-C14	EC350875	Mylar 0.001μF(J) 50WV	1
3-C15	EC380621	Mylar 0.0068μF(J) 50WV	1
3-C16	EC379765	Mylar 0.0027μF(J) 50WV	1
3-C17	EC311793	Mylar 0.012μF(J) 50WV	1
3-C18	EC350706	Elect. 4.7μF 16WV	1
3-C19	EC513933	Ceramic TLDO8F 0.022μF(Z) 25WV	1
3-C20	EC350706	Elect. 4.7μF 16WV	1
3-C21	EC290520	VFM 100PF(J) 50WV	1
		Resistor, Stopper Type	
3-R1	ER304290	Carbon RD1/4 10(J)	1
3-R2	ER336442	Carbon RD1/4 10k(J)	1
3-R3, 4	ER343078	Carbon RD1/4 2.7k(J)	2
3-R5	ER211667	Carbon RD1/4 100(J)	1
3-R6	ER357456	Carbon RD1/4 2.2k(J)	1
3-R7	ER346601	Carbon RD1/4 47k(J)	1
3-R8	ER304402	Carbon RD1/4 470(J)	1
3-R9, 10	ER357456	Carbon RD1/4 2.2k(J)	1
3-R11	ER346601	Carbon RD1/4 47k(J)	1

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

AM. IF P.C. BOARD (81-5047)/(T5-5029) BLOCK

Symbol No.	Parts No.	Description	Q'ty
4-1x	BA514383	AM. IF P.C. Board Comp. (81-5047)	1
4-2x	BA514214	AM. IF P.C. Board Comp. (T5-5029) (AT-550)	1
4-TR1 to 4	ET427860	Transistor 2SC838(H)	4
4-D1 to 4	ED219464	Germanium Diode 1N34A	4
4-L1	EO443608	High Frequency Coil 05M-741A MW RF	1
4-L2	EO443621	OSC. Coil 0.9A-465 MW OSC	1
4-T1	BT379991	Trans. HI-137S(yellow)	1
4-T2	BT380384	Trans. HI-134S(white)	1
4-T3	BT443610	Trans. H-144S(black)	1
		Capacitor, Vertical Type	
4-C1, 2	EC492142	Ceramic DD512 0.047μF(YM) 50WV	2
4-C3	EC320051	Elect. 10μF 16WV	1
4-C4	EC492142	Ceramic DD512 0.047μF(YM) 50WV	1
4-C5	EC443654	VFM 15PF(K) 50WV	1
4-C6	EC492142	Ceramic DD512 0.047μF(YM) 50WV	1
4-C7	EC250885	Mylar 0.01μF(K) 50WV	1
4-C8	EC443632	VFM 430PF(J) 50WV	1
4-C8	EC423562	VFM 470PF(J) 50WV (AT-550)	1
4-C9	EC394907	VFM 27PF(K) 50WV	1
4-C10	EC320051	Elect. 10μF 16WV	1
4-C11 to 13	EC492142	Ceramic DD512 0.047μF(YM) 50WV	3
4-C14	EC450527	Elect. 4.7μF 25WV	1
4-C14	EC320051	Elect. 10μF 16WV (AT-550)	1
4-C15 to 21	EC492142	Ceramic DD512 0.047μF(YM) 50WV	7
4-C22	EC331705	Elect. 22μF 16WV	1
4-C22	EC320040	Elect. 47μF 16WV (AT-550)	1
4-C23	EC250885	Mylar 0.01μF(K) 50WV	1
4-C24	EC457582	VFM 240PF(J) 50WV	1
4-C24	EC250885	Mylar 0.01μF(K) 50WV (AT-550)	1
4-C25	EC250885	Mylar 0.01μF(K) 50WV	1
4-C26	EC320051	Elect. 10μF 16WV	1
4-C27	EC320040	Elect. 47μF 16WV	1
4-C27	EC492142	Ceramic DD512 0.047μF(YM) 50WV (AT-550)	1
4-C28	EC492142	Ceramic DD512 0.047μF(YM) 50WV	1
4-C29	EC428995	VFM 25PF(J) 50WV	1
		Resistor, Stopper Type	
4-R1	ER357412	Carbon RD1/4 220(J)	1
4-R2	ER212883	Carbon RD1/4 4.7k(J)	1
4-R2	ER349942	Carbon RD1/4 8.2k(J) (AT-550)	1
4-R3	ER342933	Carbon RD1/4 27k(J)	1
4-R3	ER361528	Carbon RD1/4 56k(J) (AT-550)	1
4-R4	ER379934	Carbon RD1/4 27(J)	1
4-R4	ER211667	Carbon RD1/4 100(J) (AT-550)	1
4-R5	ER211667	Carbon RD1/4 100(J)	1
4-R6	ER357456	Carbon RD1/4 2.2k(J)	1
4-R7	ER357491	Carbon RD1/4 82k(J)	1
4-R8	ER211465	Carbon RD1/4 1k(J)	1
4-R9	ER304290	Carbon RD1/4 10(J)	1
4-R9	ER211667	Carbon RD1/4 100(J) (AT-550)	1
4-R10	ER211950	Carbon RD1/4 130k(J)	1
4-R10	ER379517	Carbon RD1/4 62k(J) (AT-550)	1
4-R11	ER304402	Carbon RD1/4 470(J)	1
4-R12	ER211465	Carbon RD1/4 1k(J)	1
4-R13	ER211667	Carbon RD1/4 100(J)	1
4-R14	ER336442	Carbon RD1/4 10k(J)	1
4-R15	ER361528	Carbon RD1/4 56k(J)	1
4-R15	ER357535	Carbon RD1/4 39k(J) (AT-550)	1
4-R16	ER346994	Carbon RD1/4 18k(J)	1
4-R16	ER349942	Carbon RD1/4 8.2k(J) (AT-550)	1
4-R17	ER304402	Carbon RD1/4 470(J)	1
4-R18	ER211465	Carbon RD1/4 1k(J)	1
4-R19	ER304402	Carbon RD1/4 470(J)	1
4-R20	ER212872	Carbon RD1/4 4.3k(J) (AT-550)	1
4-R21	ER211667	Carbon RD1/4 100(J)	1
4-R21	ER304290	Carbon RD1/4 10(J) (AT-550)	1
4-R22	ER357535	Carbon RD1/4 39k(J) (AT-550)	1
4-R23	ER349828	Carbon RD1/4 20k(J) (AT-550)	1
4-R24	ER211465	Carbon RD1/4 1k(J) (AT-550)	1
4-R25	ER211667	Carbon RD1/4 100(J) (AT-550)	1

FIG. 5 PHOTO OF LINE AMP. P.C. BOARD (T5-5058)



LINE AMP. P.C. BOARD (T5-5058) BLOCK

Symbol No.	Parts No.	Description	Q'ty
5-1x	BA514372	Line Amp. P.C. Board Comp. (T5-5058)	1
5-IC1	EI469844	I.C. MC-4080(4)	1
5-TR1, 2	ET443992	Transistor 2SC900(F)	1
5-FL1, 2	ER512201	Filter FB-24	2
		Capacitor, Vertical Type	
5-C1	EC337500	Mylar 0.0047μF(J) 50WV	1
5-C2, 3	EC350706	Elect. 4.7μF 16WV	2
5-C4, 5	EC350875	Mylar 0.001μF(J) 50WV	2
5-C6, 7	EC350706	Elect. 4.7μF 16WV	1
5-C8	EC320040	Elect. 47μF 16WV	1
5-C9, 10	EC380621	Mylar 0.0068μF(J) 50WV	2
5-C11, 12	EC350706	Elect. 4.7μF 16WV	2
5-C13, 14	EC310792	VFM 120PF(J) 50WV	2
5-C15, 16	EC329771	Elect. 47μF 6.3WV	2
5-C17, 18	EC452665	VFM 20PF(J) 50WV	2
5-C19 to 22	EC320051	Elect. 10μF 16WV	4
		Resistor, Stopper Type	
5-R1	ER212883	Carbon RD1/4 4.7k(J)	1
5-R2, 3	ER346601	Carbon RD1/4 47k(J)	2
5-R4, 5	ER211465	Carbon RD1/4 1k(J)	2
5-R6 to 9	ER380711	Carbon RD1/4 220k(J)	4
5-R10, 11	ER212883	Carbon RD1/4 4.7k(J)	2
5-R12, 13	ER371946	Carbon RD1/4 2k(J)	2
5-R14	ER211465	Carbon RD1/4 1k(J)	1
5-R15, 16	ER212883	Carbon RD1/4 4.7k(J)	2
5-R17, 18	ER379473	Carbon RD1/4 30k(J)	2
5-R19	ER346601	Carbon RD1/4 47k(J)	1
5-R20	ER407316	Carbon RD1/4 24k(J)	1
5-R21	ER346601	Carbon RD1/4 47k(J)	1
5-R22	ER407316	Carbon RD1/4 24k(J)	1

FIG. 6 PHOTO OF LINE AMP. P.C. BOARD (T5-5028)

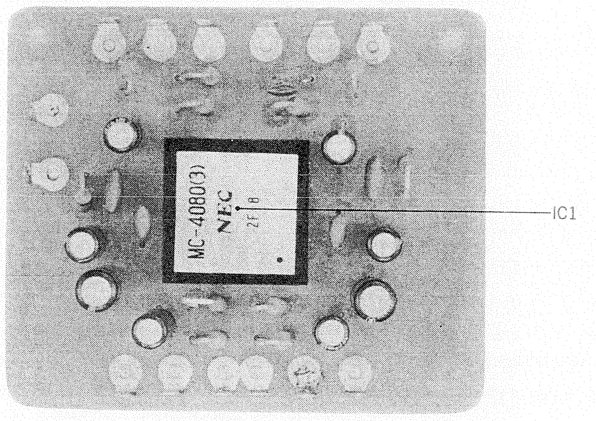
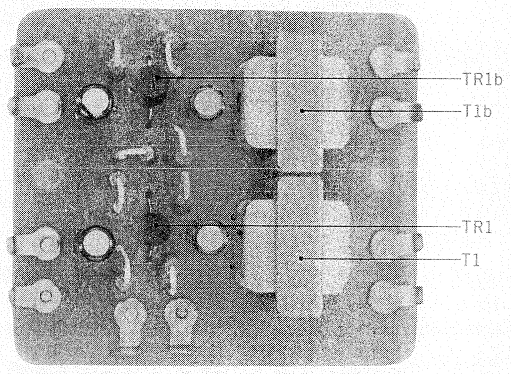


FIG. 7 PHOTO OF HEAD PHONE AMP. P.C. BOARD (T5-5060)



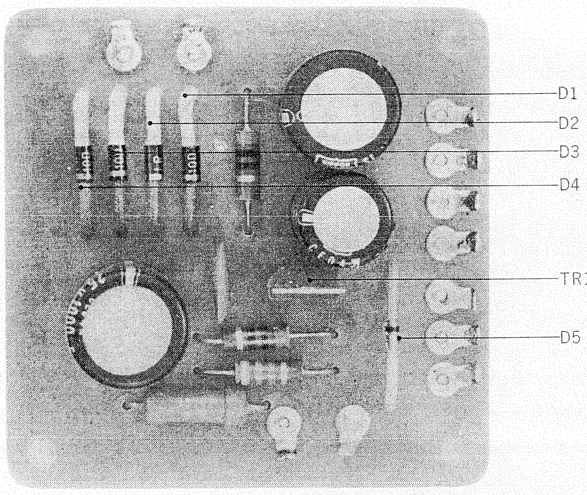
LINE AMP. P.C. BOARD (T5-5028) BLOCK

Symbol No.	Parts No.	Description	Q'ty
6-1x	BA514203	Line Amp. P.C. Board Comp. (T5-5028)(AT-550)	1
6-IC1	EI469844	I.C. MC-4080(4)	1
		Capacitor, Vertical Type	
6-C1	EC337500	Mylar 0.0047μF(J) 50WV	1
6-C2, 3	EC350706	Elect. 4.7μF 16WV	2
6-C4, 5	EC310792	VFM 120PF(J) 50WV	2
6-C6, 7	EC329771	Elect. 47μF 6.3WV	2
6-C8	EC452665	VFM 20PF(J) 50WV	1
6-C9	EC320051	Elect. 10μF 16WV	1
6-C10	EC452665	VFM 20PF(J) 50WV	1
6-C11 to 13	EC320051	Elect. 10μF 16WV	3
		Resistor, Stopper Type	
6-R1	ER212883	Carbon RD1/4 4.7k(J)	1
6-R2, 3	ER211465	Carbon RD1/4 1k(J)	2
6-R4, 5	ER346601	Carbon RD1/4 47k(J)	2
6-R6, 7	ER306887	Carbon RD1/4 15k(J)	2
6-R8	ER357535	Carbon RD1/4 39k(J)	1
6-R9	ER407316	Carbon RD1/4 24k(J)	1
6-R10	ER357535	Carbon RD1/4 39k(J)	1
6-R11	ER407316	Carbon RD1/4 24k(J)	1

HEAD PHONE AMP. P.C. BOARD (T5-5060) BLOCK

Symbol No.	Parts No.	Description	Q'ty
7-1x	BA514405	Head Phone Amp. P.C. Board Comp. (T5-5060)	1
7-TR1	ET452687	Transistor 2SC900(E) (F)	2
7-T1	BT247768	Head Phone Trans. N19-5921S	2
		Capacitor, Vertical Type	
7-C1	EC320051	Elect. 10μF 16WV	2
7-C2	EC350875	Mylar 0.001μF(J) 50WV	2
7-C3	EC320051	Elect. 10μF 16WV	2
		Resistor, Stopper Type	
7-R1	ER350100	Carbon RD1/4 68k(J)	2
7-R2	ER211858	Carbon RD1/4 12k(J)	2
7-R3	ER212477	Carbon RD1/4 3.3k(J)	2
7-R4	ER213096	Carbon RD1/4 510(J)	2

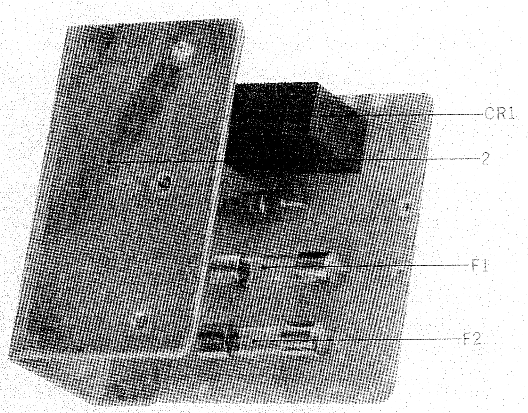
FIG. 8 PHOTO OF POWER SUPPLY P.C. BOARD (T5-5032)



POWER SUPPLY P.C. BOARD (T5-5032) BLOCK

Symbol No.	Parts No.	Description	Q'ty
8-1x	BA514247	Power Supply P.C. Board Comp. (T5-5032)	1
8-TR1	ET510761	Transistor 2SC1096(L) (M)	1
8-D1 to 4	ED224526	Silicon Diode 10D1	4
8-D5	ED510772	Zener Diode WL-120	1
		Capacitor, Vertical Type	
8-C1	EC450270	Elect. 1000μF 25WV	1
8-C2	EC336148	Elect. 1000μF 16WV	1
8-C3	EC492142	Ceramic DD512 0.047μF(YM) 50WV	1
8-C4	EC339096	Elect. 470μF 16WV	1
		Resistor, Stopper Type	
8-R1	ER229511	Solid RC1/2 470(K)	1
8-R2, 3	ER332212	Solid RC1/2 10(K)	2
8-R4	ER511222	Solid RC1 180(J)	1

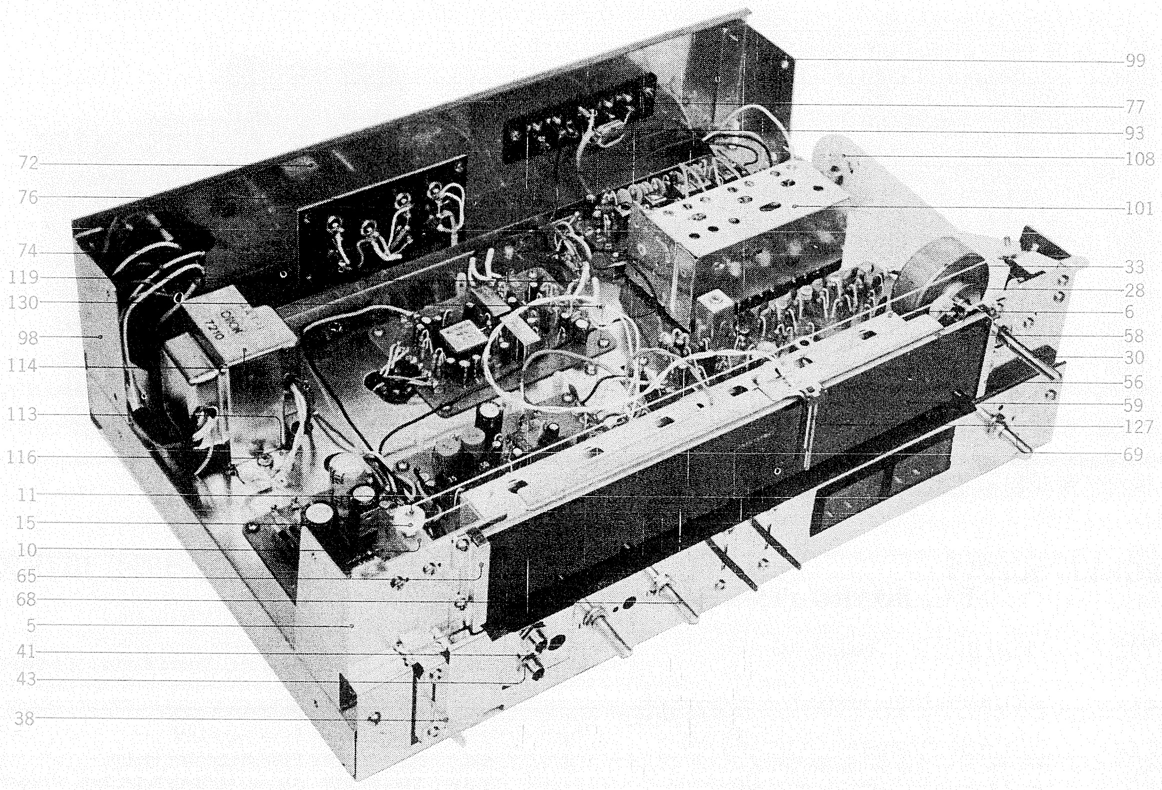
FIG. 9 PHOTO OF FUSE P.C. BOARD (T5-5034)



FUSE P.C. BOARD (T5-5034) BLOCK

Symbol No.	Parts No.	Description	Q'ty
9-1x	BA516161	Fuse P.C. Board Comp. (T5-5034)	1
9-CR1	ER450797	Spark(Quencher U/L 0.033μ+120 400WV	1
9-F1	EF495718	Fuse 0.5A 125V	1
9-F2	EF480903	Fuse 1A 125V	1
9-2	AA515676	Fuse Retaining Metal	1
9-3x	ZW413728	Screw, binding head 3x6, w/washer	2
9-R1	ER428567	Solid RC1/2 2.2M(K)	1

FIG. 10 PHOTO OF ASSEMBLY BLOCK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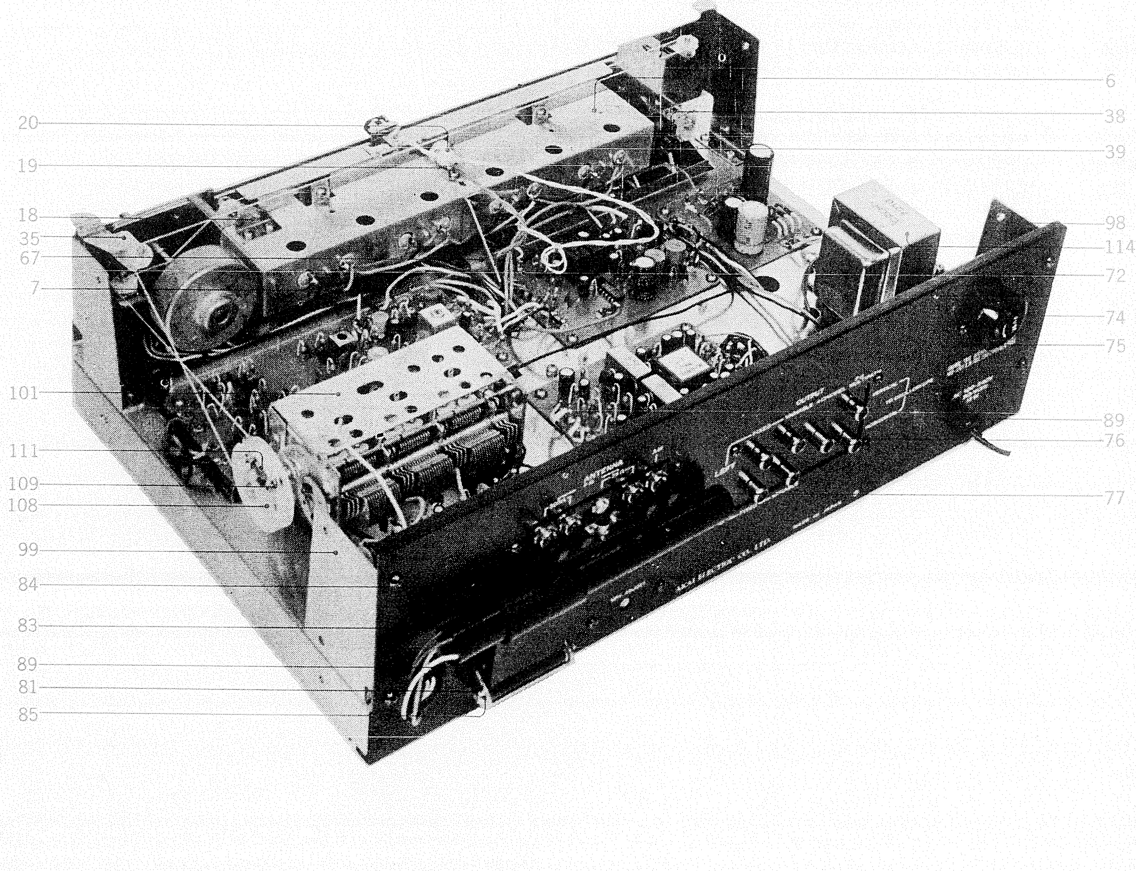
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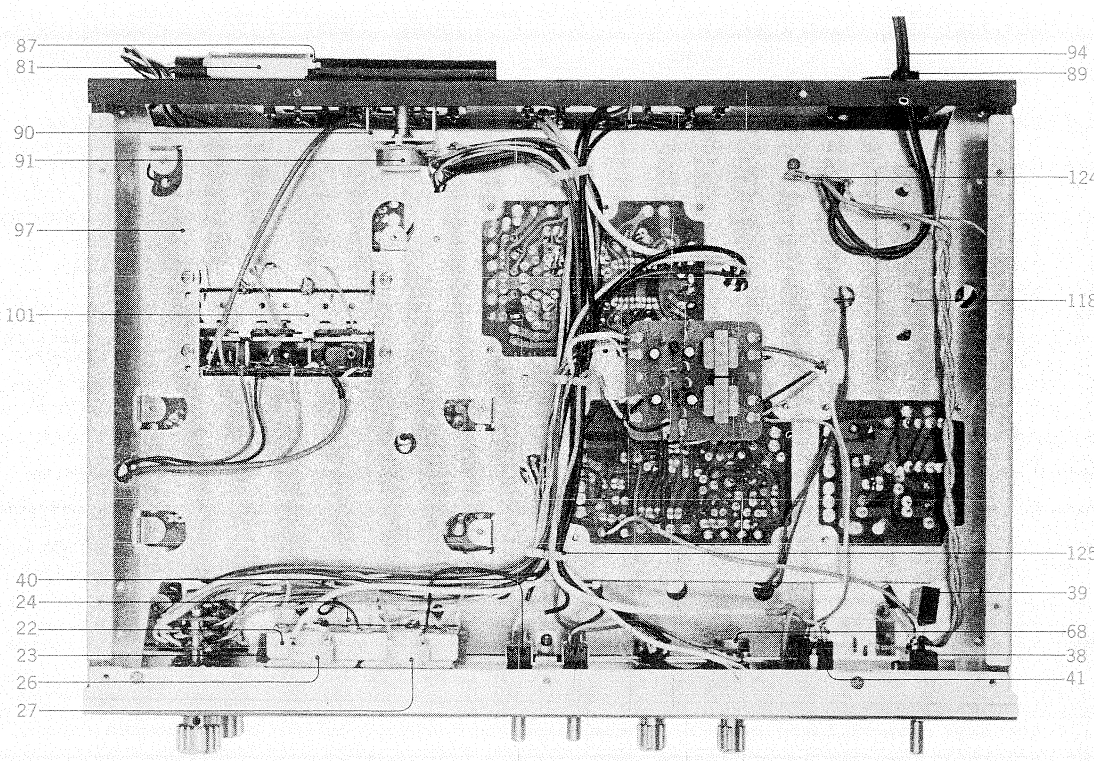


ASSEMBLY BLOCK

FRONT CHASSIS RIGHT BOX BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
10-1x	BZ514361	Front Chassis Right Box Block Comp.		1
10-2x	BZ515643	Front Chassis Right Box Block Comp. (U, CSA)		1
10-3x	BZ514170	Front Chassis Right Box Block Comp. (AT-550)		1
10-4x	BZ515632	Front Chassis Right Box Block Comp. (AT-550U, CSA)		1
10-5	AA510412	Front Chassis	T5-5003	1
10-6	AA510480	Lamp House	T5-5005	1
10-7	EJ367986	1P Fuse Holder AC125V 5A	40-1-8	4
10-8x	ZW447772	Tapping Screw #2 3x6(BR)		14
10-9x	EL443518	Fuse Type Lamp 6V 0.2A	28-2-21	4
10-10	AA510524	Roller Table	T5-5007	1
10-11	EZ443125	Roller Pin B	81-5056	4
10-12x	ZW273745	Spring Washer M3		4
10-13x	ZW348107	ISO Nut M3		4
10-14x	ZW259514	Washer (Nylon)D3.1x8x1t		2
10-15	WM428163	Roller	AA-726	4
10-16x	ZW270088	'E' Ring 1.9M	6-1-9	5
10-17x	ZW379405	ISO Screw, binding head 3x6		8
10-18	AA510467	Roller Mt. Table A	T5-5009	1
10-19	AA510513	Holder Bracket	T5-5008	1
10-20	AA510502	Lamp Holder	T5-5035	1
10-21x	EL512212	Pilot Lamp 12V 35MA (120M/Mx2) (Lead type)	28-2-23	1
10-22	AA510546	Meter Retaining Plate	T5-5010	1
10-23	AA510557	Meter Cushion	T5-5011	3
10-24	EA510568	Meter Lamp P.C. Board	T5-5012	1
10-25x	EL295312	No. 2 Lamp 8V 0.2A	28-2-8	2
10-26	EM510208	Tuning Meter A-085R	46-1-62	1
10-27	EM510210	Tuning Meter A-086B (Signal)	46-1-63	1
10-28	EZ443081	Shaft Table, w/metal	81-5008	1
10-29x	ZW379405	ISO Screw, binding head 3x6		5
10-30	MS443103	Tuning Shaft A	81-5009	1
10-31x	ZW260122	Washer (Nylon)D6.1x10x1t		1
10-32x	ZW260054	Washer (SUP)D6.1x10x0.25t		1
10-33	BF377998	Flywheel	AA-5525	1
10-34x	ZW466413	ISO Set Screw, hexagon socket 4x5(cup)		1
10-35	AA510884	Roller Retaining Table C	T5-5050	1
10-36x	AA510535	Roller Retaining Table B (AT-550)	T5-5004	1
10-37x	ZW371856	ISO Screw, binding head 3x5		2
10-38	ES445050	Lever Switch LPS60122CG00 (Power)	25-4-10	1
10-39	ER376413	Spark Quencher U/L 0.033μ+120 500WV	41-1-37	1
10-40	ES443013	Lever Switch SQ11 12-4-2	25-12-3	2
10-41	EJ376604	Mic. Jack 3PMJ1	31-2-17	2
10-42x	ZW434597	Washer (ALP)D9.3x14.2x 0.7t		2
10-43	ZW270191	E Jack Nut		2

FRONT CHASSIS BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
10-44x	BZ514348	Front Chassis Block Comp. (U)		1
10-45x	BZ514350	Front Chassis Block Comp. (A)		1
10-46x	BZ515621	Front Chassis Block Comp. (U, CSA)		1
10-47x	BZ514337	Front Chassis Block Comp. (J)		1
10-48x	BZ514157	Front Chassis Block Comp. (AT-550U)		1
10-49x	BZ514168	Front Chassis Block Comp. (AT-550A)		1
10-50x	BZ515610	Front Chassis Block Comp. (AT-550U, CSA)		1
10-51x	BZ514146	Front Chassis Block Comp. (AT-550J)		1

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
10-52x	BZ514361	Front Chassis Right Box Block Comp.		1
10-53x	BZ515643	Front Chassis Right Box Block Comp. (U, CSA)		1
10-54x	BZ514170	Front Chassis Right Box Block Comp. (AT-550)		1
10-55x	BZ515632	Front Chassis Right Box Block Comp. (AT-550U, CSA)		1
10-56	AA510445	Scale Plate Retainer A	T5-5015	1
10-57x	ZW379405	ISO Screw, binding head 3x6		4
10-58	AA510434	Back Plate	T5-5014	1
10-59	AA513832	Dial Plate 580(U)	T5-5013	1
10-60x	AA513843	Dial Plate 580(A)	T5-5013	1
10-61x	AA513821	Dial Plate 580(J)	T5-5013	1
10-62x	AA513786	Dial Plate 550(U)	T5-5013	1
10-63x	AA513797	Dial Plate 550(A)	T5-5013	1
10-64x	AA510423	Dial Plate 550(J)	T5-5013	1
10-65	AA510456	Scale Plate Retainer B	T5-5015	1
10-66x	ZW447772	Tapping Screw #2 3x6(BR)		2
10-67	AA515744	Chassis Reinforcement Plate	T5-5043	1
10-68	EV510570	Co-axial 2-throw Volume GM10A 50 kAx2	36-22-3	2
10-69	ES510581	Rotary Switch Y-383	25-7-29	1

REAR PANEL BLOCK

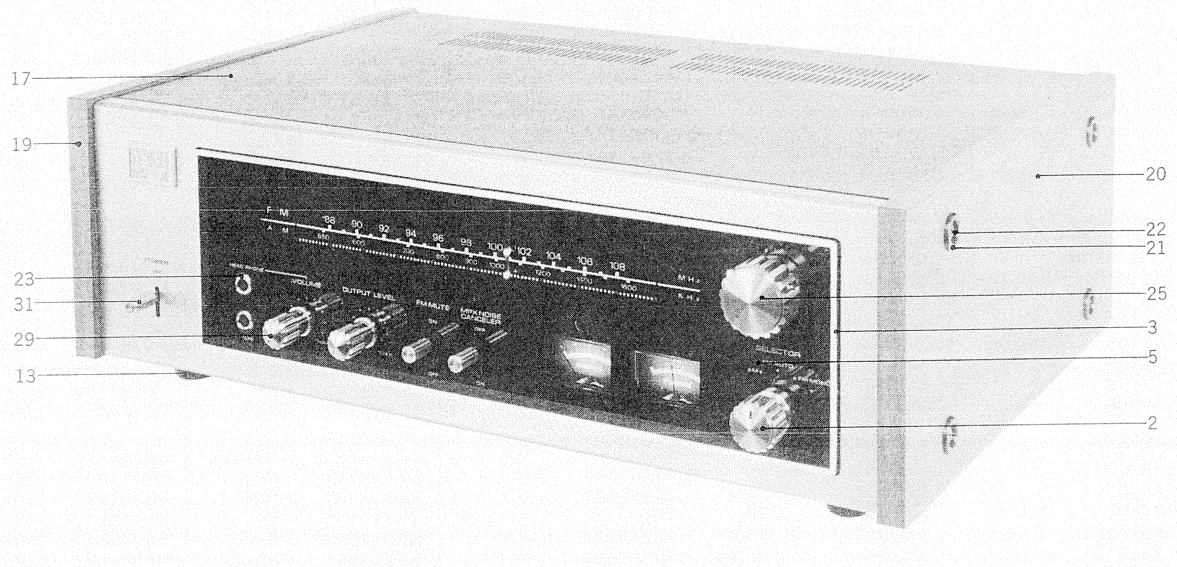
Ref. No.	Parts No.	Description	Schematic No.	Q'ty
10-70x	BZ514181	Rear Panel Block Comp.	AT-58, 55	1
10-71x	BZ514192	Rear Panel Block Comp. (U, CSA)	AT-58, 55	1
10-72	SP510592	Rear Panel A	T5-5017	1
10-73x	SP510603	Rear Panel B (U, CSA)	T5-5017	1
10-74	EJ233370	Power Plug Socket S-18010	40-2-3	1
10-75	ZW393794	ISO Screw, round head 3x8		6
10-76	EJ510636	7P Pin Jack	31-1-101	1
10-77	AA510625	5P Antenna Terminal Plate	32-1-29	1
10-78x	ZW393794	ISO Screw, round head 3x8		6
10-79x	ZW348107	ISO Nut M3		6
10-80x	EF516881	Fuse ST-4 0.3A	39-1-28	1
10-81	AA378257	Antenna Channel	AA-5551	1
10-82x	ZW447761	Tapping Screw #2 3x6(BR)		2
10-83	AA510658	Bar Antenna	55-1-12	1
10-84	WM378268	Antenna Support	AA-5552	1
10-85	ZW513900	ISO Screw, round head 4x50		1
10-86x	ZW273892	Toothed Lock Washer M4		2
10-87	ZW510660	ISO Nut M4		1
10-88x	ZW420682	Washer (Nylon)D4.2x9x0.5t		2
10-89	EZ382263	Strain Relief SR-4K-4	2-7-12	2
10-90	EZ458673	ST Supporter	AA-745	1
10-91	EV461608	Volume V24L5N 25S 1 kB	36-2-24	1
10-92x	ZW379438	ISO Screw, round head 3x6		2
10-93	BT444137	Balum Trans. 75Ω-300Ω	23-1-129	1
10-94	EZ516464	AC Cord (CSA) 2.5M	26-3-29	1
10-95x	EZ315448	Australia Cord (3 core)	26-3-11	1
10-96x	EZ246936	Strain Relief SR-6W-1(3core)	2-7-8	1

ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
10-97	AA510265	Main Chassis	T5-5001	1
10-98	EZ457738	Corner Plate A (Left)	55-5002	1
10-99	EZ457740	Corner Plate B (Right)	55-5002	1
10-100x	ZW447772	Tapping Screw #2 3x6(BR)		20
10-101	WM510805	Front End FL-517U (AT-580U, CSA)	53-1-77	1
10-102x	WM510816	Front End FL-517S (AT-580A)	53-1-76	1
10-103x	WM510794	Front End FL-517J (AT-580J)	53-1-78	1
10-104x	WM510300	Front End FL-315U19 (AT-550U, CSA)	53-1-72	1
10-105x	WM510311	Front End FL-315S11 (AT-550A)	53-1-75	1
10-106x	WM510298	Front End FL-315J17 (AT-550J)	53-1-71	1
10-107x	AA510276	Front End Retaining Table (AT-550)	T5-5002	1
10-108	MR443193	Pulley	81-5062	1
10-109	ZW321298	ISO Screw, binding head 3x8		1
10-110x	ZW474333	ISO Set Screw, hexagon socket 3x6(cup)		1
10-111	ZG243437	Spring, Pinch Roller	BT-170	1
10-112x	ZW366120	Screw, round head 3x6		2
10-113	EZ486617	Trans. Reinforcement Plate B	LF-5222	2
10-114	BT510287	Power Trans. AAT-1	38-4-187	1
10-115x	BT510322	Power Trans. AAT-2 (CSA)	38-4-197	1
10-116	ZW515946	ISO Screw, binding head 4x8		2
10-117x	ZW273914	Spring Washer M4		2
10-118	AA515755	Trans. Retaining Plate	T5-5042	1
10-119	EJ331435	Lug Plate VB2L	33-4-6	1
10-120x	ER213647	Carbon/R. RD1/4 10k(J) (Insu. type)	35-9-5	1
10-121x	ER458100	Carbon/R. RD1/4 30k(J) (Insu. type)	35-9-5	1
10-122x	EC320051	Elect. 10μF 16WV(Vert. type)	24-12-9	1
10-123x	EF516870	Fuse ST-4 0.2A	39-1-28	1
10-124	EJ339107	Lug Plate KP2L	33-3-20	1
10-125	EJ510333	Wire Clip 220-JD481610-0104(Nylon)	2-7-17	3
10-126x	EJ514607	Wire Clip 220-JD485210-01(Nylon)	2-7-18	2
10-127	EZ444328	Dial Pointer	28-2-20	1
10-128x	EZ443215	Spacer	81-5064	1
10-129x	ZW207347	Thread		1
10-130	ZG443226	Spring	81-5065	1

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

FIG. 11 PHOTO OF FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		FRONT PANEL BLOCK		
11-1x	BZ514326	Front Panel Block Comp.		1
11-2x	BZ514135	Front Panel Block Comp. (AT-550)		1
11-3	AA510851	Dial Escutcheon B	T5-5023	1
11-4x	AA510366	Dial Escutcheon A	T5-5023	1
11-5	AA510862	Window Plate B	T5-5053	1
11-6x	AA510377	Window Plate	T5-5024	1
11-7x	AA510388	Escutcheon Retaining Plate (L=324)	T5-5026	2
11-8x	ZW417273	Screw, binding head 2.3x4		8
11-9x	ZW483456	Screw, countersunk head 2.3x4		6
11-10x	EJ510390	Window Cramp (L=88)	T5-5027	2
11-11x	ZW447772	Tapping Screw #2 3x6(BR)		4
		ASSEMBLY BLOCK		
11-12x	AA513527	Bottom Plate	55-5028	1
11-13	SZ377190	LM Rubber Foot	LM-404	4
11-14x	ZW419646	Washer (SPC)D4.5x9.8x0.5t		4
11-15x	ZW463375	Tapping Screw #2 4x15(truss)		4
11-16x	ZW273778	Earth Lug M3		1
11-17	SZ457773	Upper Plate	55-5027	1
11-18x	ZW447761	Tapping Screw #2 3x6(BR) (black)		2
11-19	BC514451	Side Plate A1	55-5029	1
11-20	BC514462	Side Plate B1	55-5030	1
11-21	ZW513764	Spot Facing Washer B	2-4-28	8
11-22	ZW513775	ISO Screw, binding head 4x15		8
11-23	ZW526577	Collar B, Jack	MC-5006	2
11-24x	ZW482927	Washer (SPC)D9.2x14x0.5t		2
11-25	SK442675	Knob A-1	81-5601	1
11-26x	ZW446422	ISO Set Screw, hexagon socket 4x8		1
11-27	SK442721	Knob B-1	81-5602	1
11-28x	ZW446433	ISO Set Screw, hexagon socket 4x4		1
11-29	SK457918	Mic. Volume Knob	55-5031	2
11-30x	ZW463364	ISO Set Screw, hexagon socket 3x3(cup)		2
11-31	SK442765	Lever Switch Knob A1	81-5603	3
11-32x	EZ378573	FM Di-pole Antenna A (gray)	55-1-1	1
11-33x	EZ378584	FM Di-pole Antenna B (white)	55-1-2	1
11-34x	EF516881	Fuse ST-4 0.3A	39-1-28	1
11-35x	EF516870	Fuse ST-4 0.2A	39-1-28	1

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AA510265	10-97
AA510276	10-107x
AA510366	11-4x
AA510377	11-6x
AA510388	11-7x
AA510412	10-5
AA510423	10-64x
AA510434	10-58
AA510445	10-56
AA510456	10-65
AA510467	10-18
AA510480	10-6
AA510502	10-20
AA510513	10-19
AA510524	10-10
AA510535	10-36x
AA510546	10-22
AA510557	10-23
AA510625	10-77
AA510658	10-83
AA510851	11-3
AA510862	11-5
AA510884	10-35
AA513527	11-12x
AA513786	10-62x
AA513797	10-63x
AA513821	10-61x
AA513832	10-59
AA513843	10-60x
AA515676	9-2
AA515744	10-67
AA515755	10-118
BA514203	6-1x
BA514214	4-2x
BA514225	2-1x
BA514236	3-1x
BA514247	8-1x
BA514372	5-1x
BA514383	4-1x
BA514394	1-1x
BA514405	7-1x
BA516161	9-1x
BC514451	11-19
BC514462	11-20
BF377998	10-33
BT247768	7-T1
BT379991	4-T1
BT380384	4-T2
BT443610	4-T3
BT444137	10-93
BT510287	10-114
BT510322	10-115x
BZ514135	11-2x
BZ514146	10-51x
BZ514157	10-48x
BZ514168	10-49x
BZ514170	10-3x
BZ514170	10-54x
BZ514181	10-70x
BZ514192	10-71x
BZ514326	11-1x
BZ514337	10-47x
BZ514348	10-44x
BZ514350	10-45x
BZ514361	10-1x
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BZ515610	10-50x
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BZ515632	10-4x
BZ515632	10-55x
BZ515643	10-2x
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ED224526	8-D1 to 4
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ED379855	2-D1, 2
ED428264	1-D3 to 6
ED428264	2-D3 to 6
ED510772	8-D5
EF480903	9-F2
EF495718	9-F1
EF516870	10-123x
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EF516881	11-34x
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EI443744	3-IC1
EI469844	5-IC1
EI469844	6-IC1
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EJ339107	10-124
EJ367986	10-7
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EJ510333	10-125
EJ510390	11-10x
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EJ514607	10-126x
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EL443518	10-9x
EL512212	10-21x
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EZ315448	10-95x
EZ378573	11-32x
EZ378584	11-33x
EZ382263	10-89
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EZ443125	10-11
EZ443215	10-128x
EZ444328	10-127
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MR443193	10-108								
MS443103	10-30								
SK442675	11-25								
SK442721	11-27								
SK442765	11-31								
SK457918	11-29								
SP510592	10-72								
SP510603	10-73x								
SZ377190	11-13								
SZ457773	11-17								
WM378268	10-84								
WM428163	10-15								
WM510298	10-106x								
WM510300	10-104x								
WM510311	10-105x								
WM510794	10-103x								
WM510805	10-101								
WM510816	10-102x								
ZG243437	10-111								
ZG443226	10-130								
ZW207347	10-129x								
ZW259514	10-14x								
ZW260054	10-32x								
ZW260122	10-31x								
ZW270088	10-16x								
ZW270191	10-43								
ZW273745	10-12x								
ZW273778	11-16x								
ZW273892	10-86x								
ZW273914	10-117x								
ZW321298	10-109								
ZW348107	10-13x								
ZW348107	10-79x								
ZW366120	10-112x								
ZW371856	10-37x								
ZW379405	10-17x								
ZW379405	10-29x								
ZW379405	10-57x								
ZW379438	10-92x								
ZW393794	10-75								
ZW393794	10-78x								
ZW413728	9-3x								
ZW417273	11-8x								
ZW419646	11-14x								
ZW420682	10-88x								
ZW434597	10-42x								
ZW446422	11-26x								
ZW446433	11-28x								
ZW447761	10-82x								
ZW447761	11-18x								
ZW447772	10-8x								
ZW447772	10-66x								
ZW447772	10-100x								
ZW447772	11-11x								
ZW463364	11-30x								
ZW463375	11-15x								
ZW466413	10-34x								
ZW474333	10-110x								
ZW482927	11-24x								
ZW483456	11-9x								
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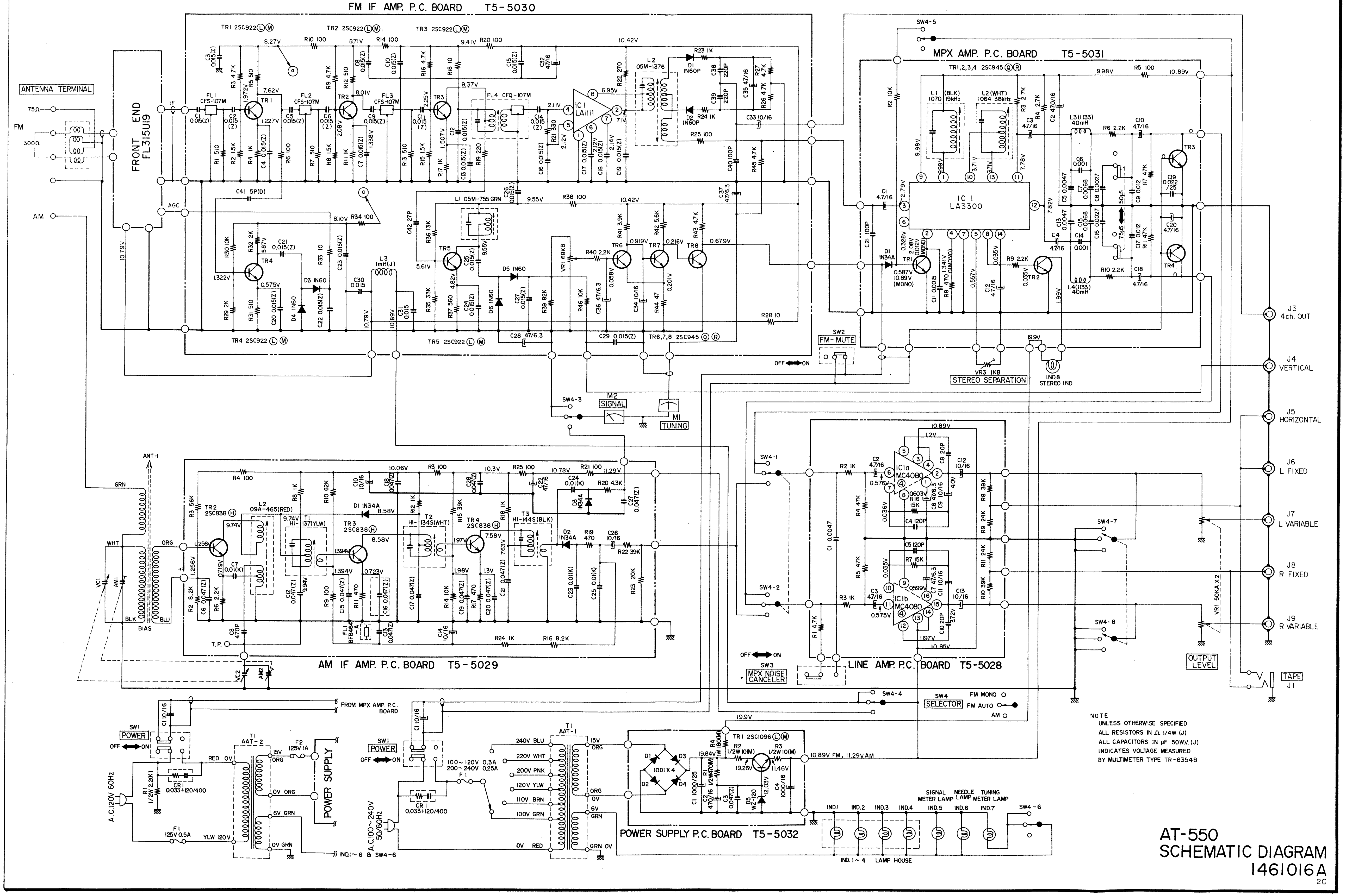
SECTION 3

SCHEMATIC DIAGRAM

1. AT-580 SCHEMATIC DIAGRAM
2. AT-550 SCHEMATIC DIAGRAM

AT-550

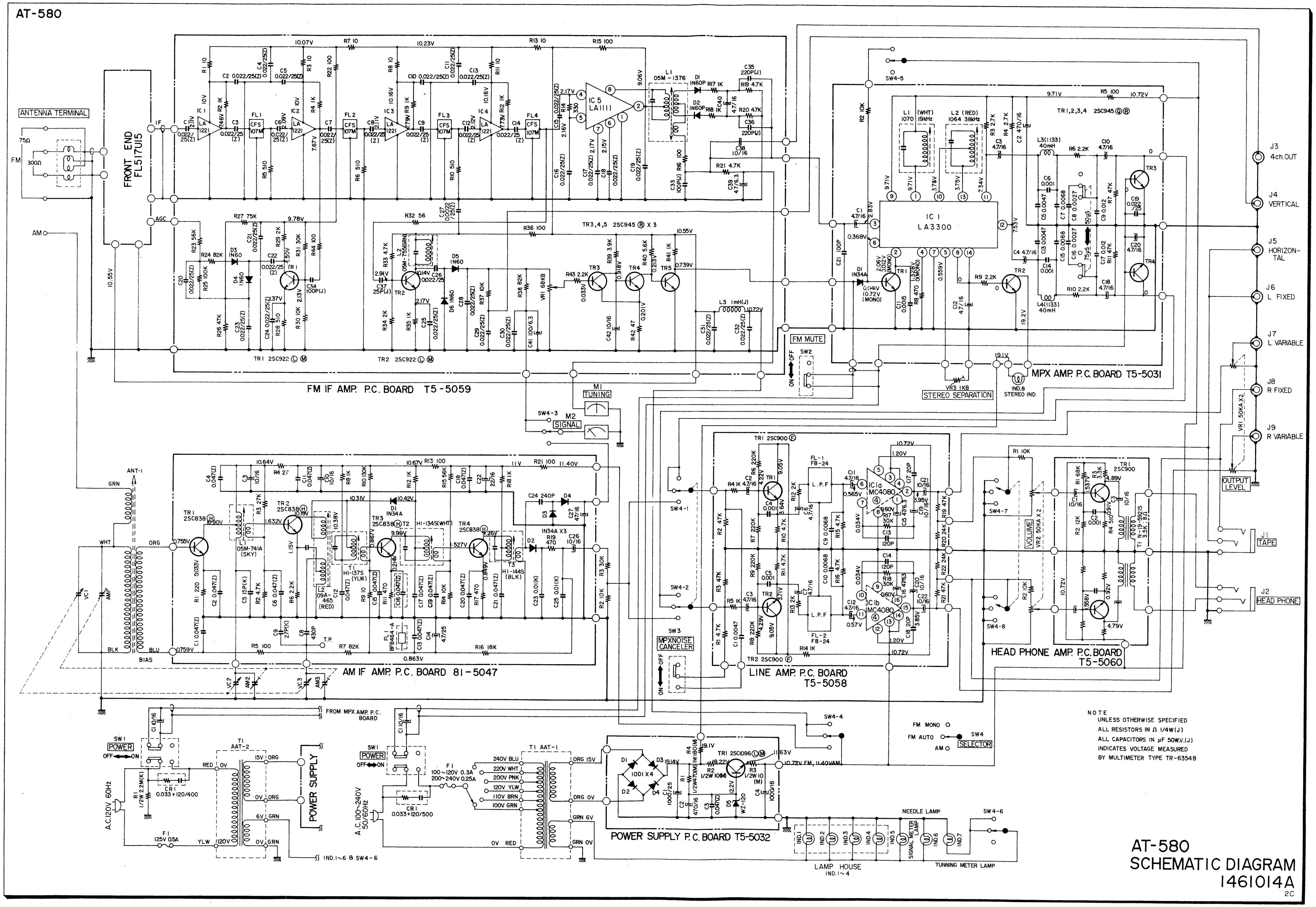


FM IF AMP. P.C. BOARD T5-5030
MPX AMP. P.C. BOARD T5-5031
AM IF AMP. P.C. BOARD T5-5029
LINE AMP. P.C. BOARD T5-5028
POWER SUPPLY P.C. BOARD T5-5032
ANTENNA TERMINAL
75Ω
300Ω
FM
AM
FRONT END FL315U19
IF
AGC
IC 1 LA1111
IC 1 LA3300
IC1a MC4080
IC1b MC4080
TR1 2SC922 Ⓛ Ⓜ
TR2 2SC922 Ⓛ Ⓜ
TR3 2SC922 Ⓛ Ⓜ
TR4 2SC922 Ⓛ Ⓜ
TR5 2SC922 Ⓛ Ⓜ
TR6,7,8 2SC945 Ⓠ Ⓡ
TR1,2,3,4 2SC945 Ⓠ Ⓡ
TR1 2SC1096 Ⓛ Ⓜ
FL1 CFS-107M
FL2 CFS-107M
FL3 CFS-107M
FL4 CFQ-107M
L1 05M-755 GRN
L2 05M-1376
L1 (BLK) 1070 19kHz
L2 (WHT) 1064 38kHz
L3(1133) 40mH
L4(1133) 40mH
L2 09A-465(RED)
T1 HI-137(YLW)
T2 HI-134S(WHT)
T3 HI-144S(BLK)
TR2 2SC838 Ⓗ
TR3 2SC838 Ⓗ
TR4 2SC838 Ⓗ
ANT-1
GRN
WHT
ORG
BLK
BLU
BIAS
T.P.
VC1
AM1
VC2
AM2
SW4-5
SW2 FM-MUTE
OFF ⟷ ON
VR3 1KB
STEREO SEPARATION
IND.8 STEREO IND.
SW4-3
M2 SIGNAL
M1 TUNING
J3 4ch. OUT
J4 VERTICAL
J5 HORIZONTAL
J6 L FIXED
J7 L VARIABLE
J8 R FIXED
J9 R VARIABLE
SW4-1
SW4-2
SW4-7
SW4-8
VR1 50KA X2
OUTPUT LEVEL
TAPE J1
SW3 MPX NOISE CANCELER
SW4-4
SW4 SELECTOR
FM MONO
FM AUTO
AM
FROM MPX AMP. P.C. BOARD
SW1 POWER
C1 10/16
CR1 0.033+120/400
R1 1/2W 2.2K(K)
A.C.120V 60Hz
F1 125V 0.5A
F2 125V 1A
T1 AAT-2
RED 0V
15V ORG
0V ORG
6V GRN
0V GRN
YLW 120V
POWER SUPPLY
IND1~6 & SW4-6
A.C.100~240V 50/60Hz
100~120V 0.3A
200~240V 0.25A
T1 AAT-1
240V BLU
220V WHT
200V PNK
120V YLW
110V BRN
100V GRN
0V RED
D1 D2 D3 D4 10D1X4
19.9V
10.89V FM, 11.29V AM
IND.1 IND.2 IND.3 IND.4 IND.5 IND.6 IND.7
SIGNAL METER LAMP
NEEDLE LAMP
TUNING METER LAMP
SW4-6
IND.1~4 LAMP HOUSE

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W (J)
ALL CAPACITORS IN μF 50WV. (J)
INDICATES VOLTAGE MEASURED
BY MULTIMETER TYPE TR-6354B

AT-550
SCHEMATIC DIAGRAM
1461016A
2C

AT-580


ANTENNA TERMINAL
FM
AM
75Ω
300Ω
FRONT END FL517U15
IF
AGC
FM IF AMP. P.C. BOARD T5-5059
IC5 LA1111
L1 05M-1376
TR1 2SC922
TR2 2SC922
TR3,4,5 2SC945 X 3
FM MUTE
SW2
ON
OFF
MPX AMP. P.C. BOARD T5-5031
IC1 LA3300
TR1,2,3,4 2SC945
L1 070 (WHT) 19KHz
L2 (RED) 1064 38kHz
VR3 1KB
STEREO SEPARATION
IND.8 STEREO IND.
M1 TUNING
M2 SIGNAL
SW4-3
SW4-5
AM IF AMP. P.C. BOARD 81-5047
ANT-1
GRN
WHT
ORG
BLK
BLU
BIAS
TR1 2SC838
TR2 2SC838
TR3 2SC838
TR4 2SC838
D1 1N34A
IN34A X3
CF1 BF464-A
SW4-1
SW4-2
SW3
MPX NOISE CANCELER
LINE AMP. P.C. BOARD T5-5058
TR1 2SC900
TR2 2SC900
IC1a MC4080
IC1b MC4080
FL-1 FB-24
FL-2 FB-24
L.P.F
HEAD PHONE AMP. P.C. BOARD T5-5060
VOLUME VR2 50KA X 2
SW4-7
SW4-8
VR1 50KA X 2
OUTPUT LEVEL
J1 TAPE
J2 HEAD PHONE
J3 4ch.OUT
J4 VERTICAL
J5 HORIZONTAL
J6 L FIXED
J7 L VARIABLE
J8 R FIXED
J9 R VARIABLE
SW1 POWER
OFF ON
A.C.120V 60Hz
T1 AAT-2
CR1 0.033+120/400
F1 125V 0.5A
POWER SUPPLY
IND.1~6 & SW4-6
FROM MPX AMP. P.C. BOARD
A.C.100~240V 50/60Hz
F1 100~120V 0.3A 200~240V 0.25A
CR1 0.033+120/500
T1 AAT-1
240V BLU
220V WHT
200V PNK
120V YLW
110V BRN
100V GRN
POWER SUPPLY P.C. BOARD T5-5032
TR1 2SC1096
10D1 X4
WZ-120
SW4-4
FM MONO
FM AUTO
AM
SW4 SELECTOR
NEEDLE LAMP
SW4-6
LAMP HOUSE IND.1~4
SIGNAL METER LAMP
TUNNING METER LAMP

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W(J)
ALL CAPACITORS IN μF 50WV.(J)
INDICATES VOLTAGE MEASURED
BY MULTIMETER TYPE TR-6354B

AT-580
SCHEMATIC DIAGRAM
1461014A

2C